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Annual Statistical Report

AMERICAN IRON AND STEEL INSTITUTE

1983

AMERICAN IRON AND STEEL INSTITUTE
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FOREWORD

The majority of the data found in the Annual Statistical Report is compiled from submissions by reporting companies, although some data from other published sources are also included. This report largely represents the steel activities of reporting companies. However, certain financial statistics represent the broader spectrum of corporate activities—including their non-steel activities.

NOTES

D—Disclosure
P—Preliminary
R—Revised
n.a.—Not available
Net ton--2,000 pounds
Gross ton—2,240 pounds
( ) Indicates loss or negative number.
Rounded figures do not necessarily add to totals.

Raw steel is defined as steel in the first solid state after melting suitable for further processing or sale, including ingots, steel for foundry castings and strand or pressure cast blooms, billets, slabs, or other product forms.

Raw steel production capability is defined as the tonnage capability to produce raw steel for a sustained full order book.

SELECTED HIGHLIGHTS
THE IRON AND STEEL INDUSTRY AT A GLANCE

The Selected Statistical Highlights present a ten-year trend from which comparisons of year-to-year changes may be made for those items of the industry that are indicative of the operating level and the financial status of reporting companies. In the use of the highlights, it should be recognized that there is a difference in the universe of reporting companies for each of the major items in the statistical section. This is especially significant for the financial series as compared to other series; for example, the universe for financial data for 1982 and 1983 represents companies who in 1983 produced 80.4% of the reported raw steel production. Also, the user should recognize that many of these companies produce and sell products and services other than those related to the steel industry. Therefore, the financial data reported represents the results of the total operations of the steel companies.

SELECTED STATISTICAL HIGHLIGHTS

Table 1A

Shipments, Apparent Supply, Imports & Employment

(Thousands)

Year	Steel Mill Products—Net Tons				Imports as % of Apparent Steel Supply					Steel Employment (a)
	Total Net Shipments	Less Exports	Plus Imports	Apparent Steel Supply	Total	Japan	EEC	Canada	Other	Average No. of Employees
1983	67,584	1,199	17,070	83,455	20.5	5.1	4.9	2.9	7.6	243
1982	61,567	1,842	16,663	76,388	21.8	6.8	7.3	2.4	5.3	289
1981	88,450	2,904	19,898	105,444	18.9	5.9	6.1	2.7	4.2	391
1980	83,853	4,101	15,495	95,247	16.3	6.3	4.1	2.5	3.4	399
1979	100,262	2,818	17,518	114,962	15.2	5.5	4.7	2.0	3.0	453
1978	97,935	2,422	21,135	116,648	18.1	5.6	6.4	2.0	4.1	449
1977	91,147	2,003	19,307	108,451	17.8	7.2	6.3	1.7	2.6	452
1976	89,447	2,654	14,285	101,078	14.1	7.9	3.2	1.3	1.7	454
1975	79,957	2,953	12,012	89,016	13.5	6.6	4.6	1.1	1.2	457
1974	109,472	5,833	15,970	119,609	13.4	5.1	5.4	1.1	1.8	512
Details on Page:	30	40	52	...	63	63	63	63	63	20

(a) Covering only those employees engaged in the production and sale of iron and steel products and excludes mining and quarrying operations, transportation, warehousing, fabrication and other non-steel producing activities.

Table 1B

Raw Steel Data

(Thousands of net tons)

Year	World Production	United States				Percent of U.S. Production				
						By Type of Furnace			By Type Cast	
		Production	% of World	Capability	% of capability	OH	BOP	Elec.	Ingots	Continuous
1983[P]	731,646	84,615	11.6	150,600	56.2	7.0	61.5	31.5	67.8	32.1
1982	710,738[R]	74,577	10.5	154,000	48.4	8.2	60.7	31.1	70.9	29.0
1981	779,399	120,828	15.5	154,300	78.3	11.1	60.6	28.3	78.2	21.6
1980	790,419	111,835	14.2	153,700	72.8	11.7	60.4	27.9	79.5	20.3
1979	824,486	136,341	16.5	155,300	87.8	14.0	61.1	24.9	82.9	16.9
1978	790,607	137,031	17.3	157,900	86.8	15.6	60.9	23.5	84.6	15.2
1977	741,828	125,333	16.9	160,000	78.4	16.0	61.8	22.2	87.3	12.7
1976	745,592	128,000	17.2	158,300	80.9	18.3	62.5	19.2	89.3	10.6
1975	712,033	116,642	16.4	153,100	76.2	19.0	61.6	19.4	90.7	9.1
1974	782,798	145,720	18.6	Not Available		24.3	56.0	19.7	Not Available	
Details on Page:	114	74	114	...	77	74	74	74	75	75

Table 1C

Selected Financial Highlights

(Millions of Dollars)

Year	Sales	Net Income	Net income as a % of Sales	Stockholders' Equity†	Net Income as a % of Stockholders' Equity	Working Capital Ratio	Long-Term Debt	Capital Expenditures
1983	$48,448.6	$(3,562.5)	(7.4)	$15,338.1	(19.7)	1.4	$15,011.3	$3,234.9*
1982[R]	52,082.9	(3,206.4)	(6.2)	18,107.9	(15.0)	1.5	15,114.5	4,203.0
1981	60,172.7	2,600.8	4.3	19,476.8	13.4	1.8	9,372.7	3,365.3
1980	52,828.8	1,734.9	3.3	18,056.6	9.6	1.7	9,803.0	3,389.6
1979	55,140.4	1,154.5	2.1	17,693.6	6.5	1.7	8,717.0	3,311.9
1978	49,033.0	1,276.6	2.6	17,603.7	7.3	1.8	8,763.0	2,595.2
1977	39,399.8	22.3	0.06	18,027.3	0.1	1.8	7,958.9	2,850.3
1976	36,092.5	1,337.4	3.7	17,192.2	7.8	1.9	6,966.5	3,252.9
1975	33,143.8	1,594.9	4.8	16,243.2	9.8	2.0	5,705.3	3,179.4
1974	37,745.0	2,475.2	6.6	14,513.5	17.1	1.8	4,651.2	2,114.7
Details on Page:	12	12	12	14	12	...	14	13

†As of Dec. 31 of the prior year. *Estimated cost to complete construction in progress $1,421.9.

Table 1D

Source and Use of Funds

(Millions of Dollars)

	Source								Use			
Year	Net Income	Less Cash Dividends Declared	Income Reinvested	Depreciation, etc.	Increase (Decrease) In Reserves, etc.	Total Internal Sources	External Debt and Stock	Total Sources of Funds	Capital Expenditures	Increase (Decrease) in Working Capital	Miscellaneous Investment and All Other	Total Disposition of Funds
1983	$(3,562.5)	$439.3	$(4,001.8)	2,427.3	$1,006.7	$(567.8)	$1,128.8	$561.0	$3,234.9	$(1,024.9)	$(1,649.0)	$561.0
1982[R]	(3,206.4)	582.4	(3,788.8)	2,480.6	884.8	(423.4)	6,217.2	5,793.8	4,203.0	(4,609.5)	6,200.3	5,793.8
1981	2,600.8	688.7	1912.1	2,097.3	1,367.4	5,376.8	(379.9)	4,996.9	3,365.3	2,075.2	(443.6)	4,996.9
1980	1,734.9	629.8	1,105.1	1,957.8	332.0	3,394.9	1,401.1	4,796.0	3,389.6	835.0	571.4	4,796.0
1979	1,154.5	593.4	561.1	1,846.9	605.7	3,013.7	(244.1)	2,769.6	3,311.9	(16.3)	(526.0)	2,769.6
1978	1,276.6	536.1	740.5	1,707.1	261.1	2,708.7	153.5	2,862.2	2,595.2	719.1	(452.1)	2,862.2
1977	22.3	555.0	(532.7)	1,521.7	366.0	1,355.0	1,101.5	2,456.5	2,850.3	(133.9)	(259.9)	2,456.5
1976	1,337.4	637.1	700.3	1,378.4	235.9	2,314.6	1,396.0	3,710.6	3,252.9	275.0	182.7	3,710.6
1975	1,594.9	657.8	937.1	1,272.8	317.6	2,527.5	1,066.0	3,593.5	3,179.4	(43.8)	457.9	3,593.5
1974	2,475.2	674.4	1,800.8	1,327.2	225.8	3,353.8	(382.8)	2,971.0	2,114.7	935.8	(79.5)	2,971.0
Details on Page:	12	12	..	12	14	...	...	...	13	14	...	...

NOTE: 1982 and 1983 data represents consolidated reports of steel industry companies who produced 80.4% of the reported raw steel production in 1983.

Selected Financial Highlights (*Continued*)

Table 1E

Capital Expenditures for Environmental Facilities

(Millions of Dollars)

Year	Water	Air	Total
1951-1965	$ 209.6	$ 238.8	$ 448.4
1966-1970	315.9	256.9	572.8
1971-1975	439.3	790.6	1,229.9
1976	158.7	330.5	489.2
1977	205.7	329.1	534.8
1978	180.8	277.2	458.0
1979	201.2	449.6	650.8
1980	168.2	342.3	510.5
1981	119.4	369.8	489.2
1982	104.6	157.3	261.9
1983	55.6	84.6	140.2
Total	**$2,159.0**	**$3,626.7**	**$5,785.7**
Authorized for 1984 or later	$ 112.7	$ 99.5	$ 212.2

Note: Capital expenditures in the above table include only those for facilities which were installed primarily for environmental control in domestic iron and steelmaking sectors, including steel company owned mines, quarries and fabricating plants. Total capital expenditures for all purposes, as shown in Tables 1C and 1D include those made by steel companies in both steel and nonsteel operations, domestic and foreign.

FINANCIAL STATISTICS

Financial data for 1982 and 1983 includes companies which make up 80.4% of the reported total raw steel production of the entire industry in 1983. Other years are based on results of companies representing varying percentages of the entire industry. Such results also include activities which are not part of the steel industry (extractive industries, fabrication, transportation, etc.) Likewise, the employment data for this universe includes the cost of employees engaged in all such operations.

Indexes on consumer and producer prices of steel mill products in the iron and steel industry are those compiled by the United States Department of Labor, Bureau of Labor Statistics.

Table 2

Income, Dividends, Return on Sales and Stockholders' Equity (a)

(Millions of net tons and dollars)

	1983	1982[R]	1981	1980	1979	1978	1977	1976	1975	1974
Reporting Companies Represent:										
Blast furnace production	46.2	41.1	69.5	64.8	83.3	83.9	77.5	83.5	76.1	91.7
Percent of industry	94.8	94.9	94.4	94.4	95.8	95.7	95.3	96.1	95.2	95.6
Raw steel production	68.0	61.3	103.0	95.6	119.7	121.7	111.6	116.3	105.1	132.9
Per cent of industry	80.4	82.1	85.3	85.5	87.8	88.8	89.0	90.9	90.1	91.2
Shipments of finished steel products	52.9	50.5	74.2	72.5	88.3	86.3	81.5	81.8	72.9	101.3
Statement of Income:										
Revenues:										
Sales (Net billing value of products shipped and other services)	$48,448.6	$52,082.9	$60,172.7	$52,828.8	$55,140.4	$49,033.0	$39,399.8	$36,092.5	$33,143.8	$37,745.0
Interest, dividends and other income	800.5	1,054.7	1,311.2	970.4	564.4	445.2	307.7	369.9	532.5	498.6
Total Revenue	**49,249.1**	**53,137.6**	**61,483.9**	**53,799.2**	**55,704.8**	**49,478.2**	**39,707.5**	**36,462.4**	**33,676.3**	**38,243.6**
Costs Applied to Billings and Other Services:										
Employment Costs	14,223.0	16,615.3	19,362.0	18,090.4	18,673.5	16,768.6	14,410.0	13,273.6	11,883.1	11,858.5
Materials, supplies, freight and other services, etc.	31,158.9	32,610.4	34,721.9	30,393.7	31,380.4	27,494.5	22,096.4	19,175.7	17,373.6	19,900.3
Depreciation, depletion and amortization	2,427.3	2,480.6	2,097.3	1,957.8	1,846.9	1,707.1	1,521.7	1,378.4	1,272.8	1,327.2
Interest and charges on debt	1,634.5	1,664.5	869.2	873.2	746.4	752.2	605.4	480.7	382.5	353.7
Taxes other than income	1,647.0	1,733.7	664.6	638.7	806.6	688.8	533.5	560.8	515.7	482.6
Taxes on income	(486.1)	(646.1)	1,504.7	449.2	383.8	652.5	(433.4)	265.7	653.7	1,846.1
Loss (or (gain) on discontinued operations and sales of assets (b)	2,207.0	1,885.6	(336.6)	(338.6)	712.7	137.9	951.6	(9.9)	...	...
Total Costs	**52,811.6**	**56,344.0**	**58,883.1**	**52,064.4**	**54,550.3**	**48,201.6**	**39,685.2**	**35,125.0**	**32,081.4**	**35,768.4**
Net Income	$(3,562.5)	$(3,206.4)	$2,600.8	$1,734.9	$1,154.5	$1,276.6	$22.3	$1,337.4	$1,594.9	$2,475.2
Per Cent Return on Sales	(7.4)	(6.2)	4.3	3.3	2.1	2.6	0.06	3.7	4.8	6.6
Per Cent Return on Stockholders' Equity (c)	(19.7)	(15.0)	13.4	9.6	6.5	7.3	0.1	7.8	9.8	17.1
Cash Dividends Declared	$439.3	$582.4	$688.7	$629.8	$593.4	$536.1	$555.0	$637.1	$657.8	$674.4
Stockholders:										
Number at end of year:										
Preferred	53,483	39,304	41,349	45,547	55,648	72,572	36,167	33,243	35,176	36,066
Common	622,443	694,108	724,854	755,644	772,014	817,632	779,499	773,635	831,877	899,329
Employees:	383,711	446,490	538,271	553,548	620,112	625,246	609,063	607,176	616,658	674,872

(a) Some of the reporting companies, either directly or indirectly through subsidiary companies, are engaged in activities which are not a part of the steel industry and make their reports on a consolidated basis. Hence, "Net Income" as reported by such companies includes the operations of activities not concerned with steelmaking. Although the detail of net income is not available, the following Table 3 compares the contribution of the steel versus other business segments for certain financial items (as reported in the business segment sections of the companies annual reports).

(b) Includes only pretax (gains) or losses which were separately disclosed in annual financial statements to stockholders.

(c) Based on stockholders' equity as of Dec. 31 of the prior year.

Totals do not necessarily add due to rounding.

Table 3

Steel Vs. All Other Business Segments

(Millions of Dollars)

	1983	1982[R]	1981	1980	1979
Sales					
Steel Segment	$27,260	$29,015	$43,863	$38,211	$42,859
All Other Segments	23,205	25,835	21,231	18,751	23,205
Inter Segment Eliminations	(2,016)	(2,769)	(4,921)	(4,133)	(3,748)
Total	**48,449**	**52,083**	**60,173**	**52,829**	**55,140**
% Steel of Total	56%	56%	73%	72%	78%
Depreciation, Depletion and Amortization					
Steel Segment	$ 1,392	$ 1,482	$ 1,610	$ 1,521	$ 1,510
All Other Segments	1,003	957	458	415	317
Unallocated Corporate Items	32	42	29	22	20
Total	**2,427**	**2,481**	**2,097**	**1,958**	**1,847**
% Steel of Total	57%	60%	77%	78%	82%
Operating Income					
Steel Segment	$ (1,920)	$ (2,756)	$ 2,362	$ 777	$ 1,962
All Other Segments	1,209	1,573	1,634	1,567	1,227
Unallocated Corporate Items	(355)	(307)	(274)	(214)	(201)
Total	**(1,066)**	**(1,490)**	**3,722**	**2,130**	**2,988**
% Steel of Total	...	...	63%	36%	66%
Identifiable Assets					
Steel Segments	$25,605	$26,099	$28,524	$28,227	$27,206
All Other Segments	19,610	20,193	13,332	11,706	10,426
Unallocated Corporate Items	3,779	3,451	4,996	3,764	2,557
Total	**48,994**	**49,743**	**46,852**	**43,697**	**40,189**
% Steel of Total	52%	52%	61%	65%	68%
Capital Expenditures					
Steel Segment	$ 1,882	$ 2,212	$ 2,367	$ 2,606	$ 2,358
All Other Segments	1,316	1,940	959	744	915
Unallocated Corporate Items	37	51	39	40	39
Total	**3,235**	**4,203**	**3,365**	**3,390**	**3,312**
% Steel of Total	58%	53%	70%	77%	71%

NOTE: Steel Segment generally includes raw material operations dedicated to the support of steel operations.

Table 4

Balance Sheet

(Millions of dollars)

Assets	1983	1982[R]	1981	1980	1979	1978	1977	1976	1975	1974
Current Assets:										
Cash and marketable securities	$1,483.7	$1,919.7	$4,030.0	$2,595.9	$1,978.8	$2,078.3	$1,564.2	$1,603.9	$1,721.7	$3,518.0
Receivables, less allowances for doubtful accounts	6,226.3	5,101.1	7,845.8	7,300.8	6,419.5	5,835.8	4,434.7	3,565.2	3,398.4	4,091.6
Inventories	7,068.4	8,071.9	7,970.0	6,794.8	6,909.1	6,480.1	5,898.2	6,408.5	5,390.8	4,394.1
Other Current Assets	285.1	314.3	179.7	267.9	160.7	186.2	443.0	251.0	239.5	208.8
Total Current Assets	**15,063.5**	**15,407.0**	**20,025.5**	**16,959.4**	**15,468.1**	**14,580.4**	**12,340.1**	**11,828.6**	**10,750.4**	**12,212.5**
Miscellaneous investments and other assets	3,392.2	3,968.0	3,520.9	3,723.3	2,873.0	3,009.0	2,867.0	2,613.1	2,437.5	2,113.3
Fixed Assets:										
Property, plant and equipment	53,834.9	54,487.3	47,187.0	45,998.3	43,790.3	42,280.3	41,406.7	39,879.2	37,145.0	34,500.3
Less—Depreciation, depletion and amortization	23,987.8	24,693.6	24,253.4	23,588.0	22,456.5	22,008.2	21,684.5	21,228.6	20,286.1	19,601.1
Net Fixed Assets	29,847.1	29,793.7	22,933.6	22,410.3	21,333.7	20,272.1	19,722.2	18,650.6	16,858.9	14,899.2
Intangibles	143.8	52.4	78.8	61.4	55.6	56.9	55.1	110.2	98.7	82.9
Deferred charges	547.7	521.8	510.2	542.5	458.9	441.2	432.6	361.5	274.4	199.5
Total Assets	**$48,994.3**	**$49,742.9**	**$47,069.0**	**$43,696.9**	**$40,189.3**	**$38,359.6**	**$35,417.0**	**$33,564.0**	**$30,419.9**	**$29,506.4**
Liabilities and Stockholders' Equity										
Current Liabilities:										
Accrued taxes, including Federal income taxes	$1,128.7	$1,107.7	$1,649.7	$1,365.5	$1,212.8	$1,168.3	$771.5	$865.1	$897.5	$1,846.3
Long-term debt maturing within one year	453.2	509.6	345.1	286.7	351.3	287.8	300.6	232.7	209.4	255.6
All other current liabilities	9,280.7	8,563.9	8,837.5	8,189.2	7,621.0	6,825.0	5,687.8	5,016.7	4,204.3	4,627.6
Total Current Liabilities	**10,862.6**	**10,181.2**	**10,832.3**	**9,841.4**	**9,185.1**	**8,281.1**	**6,759.9**	**6,114.5**	**5,311.2**	**6,729.5**
Long-term debt less amount maturing within one year	15,011.3	15,114.5	9,372.7	9,803.0	8,717.0	8,763.0	7,958.9	6,966.5	5,705.3	4,651.2
Other long-term liabilities and reserves	7,244.5	6,237.8	5,353.0	3,985.6	3,653.6	3,047.9	2,786.8	2,420.8	2,184.9	1,867.3
Minority interest in companies not wholly owned	67.0	80.7	89.7	590.1	577.0	574.0	307.7	34.9	26.3	15.2
Redeemable preferred stock	470.8	20.8	...	...	...	...	...	...	...	...
Stockholders' Equity:										
Preferred stock	1,276.3	690.6	133.7	137.9	105.5	212.6	231.6	106.8	108.2	111.3
Common stock	4,167.4	3,934.2	3,709.6	3,336.2	3,398.1	3,201.1	3,221.4	3,172.6	3,052.0	2,046.4
Capital surplus	2,604.2	2,453.6	2,654.2	1,397.1	1,450.3	1,629.3	1,416.9	1,396.6	1,352.6	1,292.1
Income reinvested in business	7,290.2	11,029.3	14,923.8	14,105.6	13,102.7	12,650.6	12,733.8	13,351.3	12,679.4	11,793.4
Total Stockholders' Equity	**15,338.1**	**18,107.9**	**21,421.3**	**19,476.8**	**18,056.6**	**17,693.6**	**17,603.7**	**18,027.3**	**17,192.2**	**16,243.2**
Total Liabilities and Stockholders' Equity	**$48,994.3**	**$49,742.9**	**$47,069.0**	**$43,696.9**	**$40,189.3**	**$38,359.6**	**$35,417.0**	**$33,564.0**	**$30,419.9**	**$29,506.4**

Table 5

BLS—Consumer and Producer Price Indexes of Steel Prices (1967 = 100)

Source: United States Department of Labor, Bureau of Labor Statistics

Year		Consumer Price Index	Industrial Commodities	Iron and Steel					
				Steel Mill Products			Other Iron and Steel Products		
				Total	Finished	Semi-Finished	Pig Iron & Ferroalloys	Scrap Iron & Steel	Fdry. & Forgings
1960		88.7	95.3	96.4	96.3	97.1	120.4	110.2	92.4
1961		89.6	94.8	96.0	95.9	97.0	118.4	116.8	92.7
1962		90.6	94.8	95.8	95.7	97.0	113.9	95.2	92.8
1963		91.7	94.7	96.3	96.2	97.4	102.3	91.7	92.8
1964		92.9	95.2	97.1	97.0	98.6	97.1	109.4	93.8
1965		94.5	96.4	97.5	97.5	98.4	100.3	112.6	95.1
1966		97.2	98.5	98.9	98.8	98.8	100.3	106.6	96.8
1967		100	100	100	100	100	100	100	100
1968		104.2	102.5	102.5	102.5	102.3	100.9	93.0	103.0
1969		109.8	106.0	107.4	107.4	107.0	102.1	110.5	106.9
1970		116.3	110.0	114.3	114.3	112.2	114.6	138.9	112.6
1971		121.3	113.9	123.0	123.0	122.7	126.3	114.6	119.2
1972		125.3	117.9	130.4	130.4	130.9	125.4	121.8	124.3
1973		133.1	125.9	134.1	134.1	133.9	129.4	188.0	131.5
1974		147.7	153.8	170.0	170.0	169.0	188.1	353.2	161.4
1975		161.2	171.5	197.2	196.6	206.7	264.7	245.6	194.3
1976		170.5	182.4	209.8	209.0	223.1	261.6	259.0	218.6
1977		181.5	195.1	229.9	229.0	243.6	257.0	231.2	229.9
1978		195.3†	209.3	254.4	253.4	270.6	259.7	264.6	248.7
1979		217.7	236.1	280.4	279.5	294.3	296.5	341.9	275.8
1980		247.0	274.2	302.7	301.2	325.3	307.2	328.1	309.0
1981		272.3	303.6	337.6	336.2	359.3	315.1	327.4	329.3
1982		288.6	312.3	349.7††	348.4††	370.2	316.5	232.9	345.3
1983		297.4	315.9	352.5	351.3	370.6	309.4	250.1	350.8
1983	Jan.	292.1	314.0	343.7	342.1	368.6	316.6	202.6	346.1
	Feb.	292.3	314.4	351.8	350.5	372.2	316.6	223.6	346.8
	Mar.	293.0	313.4	350.1	348.7	371.7	316.6	249.5	350.9
	April	294.9	312.6	350.1	348.8	369.9	311.9	248.7	352.1
	May	296.3	313.8	350.0	348.7	369.7	308.8	240.3	352.3
	June	297.2	315.4	349.0	347.7	369.7	304.8	246.8	350.7
	July	298.2	316.6	349.9	348.5	372.3	307.3	249.3	351.0
	Aug.	299.5	317.5	351.4	350.1	371.5	306.3	257.9	350.6
	Sept.	300.8	317.2	357.7	356.7	371.1	306.9	265.1	350.7
	Oct.	301.3	318.7	358.1	357.2	369.9	305.8	264.8	352.5
	Nov.	301.4	318.3	359.1	358.2	370.0	305.4	268.7	352.8
	Dec.	301.5	318.4	359.5	358.7	370.0	305.9	283.4	353.1

†Urban wage earners and clerical workers starting 1978.
††Effective July 1982, this index excludes all fabricated wire products including nails and staples, barbed wire, fencing, etc.

EMPLOYMENT AND WAGE DATA

The data on number of employees, hours worked, wages and salaries paid, payroll cost per hour and employment cost per hour as shown on tables 6 and 7 cover those employees engaged in the operation of coke ovens, blast furnaces, steelmaking furnaces and finishing mills, etc. and the sale of products thereof as reported by companies comprising about 87% of total raw steel production.

Indexes on output per manhour in the iron and steel industry are those compiled by the United States Department of Labor, Bureau of Labor Statistics.

Table 6

Total Employment Cost per Hour Worked—Wage Employees

(Covering those employees engaged in the production of iron and steel products)

Year	Pay for Hours Worked						Memo	Other Payroll Costs						Year
	Straight Time					Subtotal								
	Regular (1)	Shift Differential (2)	Sunday Premium (3)	Overtime Premium (4)	Premium For Work On Holidays (5)	Pay For Hours Worked (6)	Average Hourly Earnings In Steel (BLS) (7)	Pay For Holidays Not Worked (8)	Vacation Pay (9)	Allowances and Adjustments (10)	Total Payroll Cost Per Hour (11)	Employee Benefits Cost Per Hour (12)	Total Employment Cost Per Hour (13)	
1983	$12.548	$.156	$.255	$.409	$.259	$13.627	$13.40	$.366	$.968	$.133	$15.094	$7.119	$22.213	1983
1982	13.012	.157	$.375	.276	.235	14.055	13.96	.499	2.165	.089	16.808	6.973	23.781	1982
1981	12.092	.171	.434	.432	.298	13.427	13.11	.350	1.601	.071	15.449	4.709	20.158	1981
1980	10.971	.135	.377	.336	.295	12.114	11.84	.333	1.574	.156	14.177	4.274	18.451	1980
1979	9.822	.121	.368	.427	.281	11.019	10.77	.247	1.230	.055	12.551	3.370	15.921	1979
1978	8.890	.120	.333	.391	.242	9.976	9.70	.194	1.051	.049	11.270	3.033	14.303	1978
1977	8.029	.117	.280	.294	.193	8.913	8.67	.200	1.015	.123	10.251	2.785	13.036	1977
1976	7.247	.115	.249	.239	.148	7.998	7.86	.177	.912	.045	9.132	2.612	11.744	1976
1975	6.634	.080	.218	.171	.124	7.227	7.11	.170	.874	.040	8.311	2.279	10.590	1975
1974	5.921	.062	.212	.235	.120	6.550	6.38	.114	.653	.108	7.425	1.653	9.078	1974
1973	5.159	.062	.135	.218	.114	5.688	5.56	.092	.507	.024	6.311	1.370	7.681	1973
1972	4.813	.060	.087	.161	.100	5.221	5.15	.101	.528	.027	5.877	1.198	7.075	1972
1971	4.242	.060	.075	.126	.071	4.574	4.57	.090	.519	.032	5.215	1.046	6.261	1971
1970	3.926	.054	.71	.118	.067	4.236	4.22	.077	.431	.023	4.767	.910	5.677	1970
1969	3.776	.050	.72	.154	.068	4.120	4.09	.053	.370	.023	4.566	.809	5.375	1969
1968	3.553	.049	.067	.126	.065	3.860	3.82	.049	.376	.018	4.303	.729	5.032	1968
1967	3.398	.048	.063	.091	.056	3.656	3.62	.056	.349	.008	4.069	.689	4.758	1967
1966	3.353	.049	.065	.110	.059	3.636	3.58	.049	.324	.008	4.017	.616	4.633	1966
1965	3.261	.049	.064	.106	.056	3.536	3.46	.048	.343	.008	3.935	.540	4.475	1965
1964	3.177	.049	.061	.090	.054	3.431	3.41	.048	.310	.007	3.796	.559	4.355	1964
Incr. 1983 vs. 1964	$9.371	$.107	$.194	$.319	$.205	$10.196	$9.99	$.318	$.658	$.126	$11.298	$6.560	$17.858	Incr. 1983 vs. 1964
	283%	218%	318%	354%	380%	297%	293%	663%	212%		298%	1174%	410%	

Notes Pertaining to Table 6 by Column Numbers

(Notes refer to agreement between the coordinating companies and the United Steel Workers of America)

Column No.

(1) Includes nonincentive bonus where applicable and Cost of Living Adjustment. The job class rate as established effective March 1, 1983 includes a wage reduction of $1.25 which reduced the The Cost of Living Adjustment roll in to $3.86. The Cost of Living Adjustment subsequent to August 1, 1982 was reduced to 6¢ effective 2/1/83 and eliminated on 3/1/83.

Cost of Living Adjustment Per Hour Worked

	1974	*1975*	*1976*	*1977*	*1978*	*1979*	*1980*	*1981*	*1982*	*1983*
Feb.	$.39	$.56	$.19	$.14	$.39	$.25	$.44	$.36	$.32	.06
Mar.	...	...	...	...	...	...	...	...	...	**
May	.15	.64	.23	.13	.51	.47	*	.58	.37	...
Aug.	.28	...	...	.25	...	...	...	...	...	...
Nov.	.44	.10	.08	.32	.13	.23	.14	.25	.09	...

*Excludes $.33 diverted to finance pension improvements for retirees.

**Effective March 1, 1983 cost of living allowance eliminated.

(3) Sunday premium reduced from 50% to 25% effective March 1, 1983.

(9) Includes regular vacation and company liability for vacation time-off and/or pay in lieu of SVP. 1983 reflects the adjustment for elimination of SVP effective January 1, 1984.

(10) Allowances include earnings protection plan payments, reporting allowance, allowance for participation in military and naval training programs, jury duty, witness pay, funeral leave, rate retention under consent decree and similar actions, severance pay, $150 bonus paid under the Experimental Negotiating Agreement with the Steelworkers Union and/or other unions which was eliminated March 1, 1983, and retroactive payments.

Table 6A

Standard Hourly Wage Rate Changes and Minimum Wage Rates in the Iron and Steel Industry
(Per Agreement With the United Steelworkers of America)
1961-1983

Effective Date	Standard Hourly Wage Rate Changes Per Hour: Job Class 1 and 2	Standard Hourly Wage Rate Changes Per Hour: Increment/ Job Class	Standard Hourly Wage Rate Changes Per Hour: Avg. All Job Classes	Minimum Std. Hourly Wage Rate (Job Class 1 and 2)
March 1, 1983	(1.250)*	...	(1.250)	9.495
August 1, 1982	.770	.010	.853	10.745
August 1, 1981	.990	.010	1.071	9.975
August 1, 1980	.260	...	.260	8.985
May 1, 1980	.690	.010	.770	8.725
August 1, 1979	.820	.003	.843	8.035
February 1, 1979	.100	...	.100	7.215
August 1, 1978	.800	.003	.823	7.115
February 1, 1978	.100	...	.100	6.315
August 1, 1977	.200	...	.200	6.215
May 1, 1977	.340	.004	.371	6.015
August 1, 1976	.480	.004	.511	5.675
August 1, 1975	.890	.003	.913	5.195
May 1, 1974	.670	.002	.685	4.305
August 1, 1973	.125	.004	.155	3.635
August 1, 1972	.125	.004	.154	3.510
August 1, 1971	.500	.005	.537	3.385
August 1, 1970	.120	.002	.135	2.885
August 1, 1969	.120	.003	.142	2.765
August 1, 1968	.200	.005	.236	2.645
August 1, 1967	.060	.002	.076	2.445
September 1, 1965	.100	.003	.121	2.385
October 1, 1961	.085	.001	.092	2.285

*See footnote (1) for explanation.

Note: As of March 1, 1983, the hourly wage rate varies from a minimum (Job Class 1 and 2) of $9.495 to a maximum (Job Class 34) of $14.199 with an increment of 14.7¢ per hour between job classes.

Table 7

Number of Employees, Hours Worked and Payroll Cost

(Covering those employees engaged in the production and sale of iron and steel products)

Year	Employees Receiving Wages					Employees Receiving Salaries			All Employees Receiving Wages and Salaries					Year
	Average Number of Employees †	Total Hours Worked (000)	Avg. Hrs. Worked Per Week Per Employee	Total Wages * (000)	Average Payroll Cost Per Hour	Average Number of Employees †	Total Hours Worked (000)	Total Salaries * (000)	Average Number of Employees †	Total Hours Worked (000)	Avg. Hrs. Worked Per Week Per Employee	Total Wages and Salaries * (000)	Average Payroll Cost Per Hour	
1983	168,852	324,997	36.9	$4,905,512	$15.094	73,893	149,814	$2,476,654	242,745	474,811	33.4	$7,382,166	$15.547	1983
1982	198,477	345,093	33.3	5,800,380	16.808	90,960	180,535	3,034,476	289,437	525,628	34.8	8,834,856	16.808	1982
1981	286,219	543,324	36.4	8,394,034	15.449	104,695	209,373	3,494,624	390,914	752,697	36.9	11,888,658	15.795	1981
1980	291,483	544,220	35.7	7,715,679	14.177	107,346	213,575	3,218,442	398,829	757,795	36.3	10,934,121	14.429	1980
1979	341,931	669,045	37.5	8,397,211	12.551	111,250	225,033	3,085,197	453,181	894,078	37.8	11,482,408	12.843	1979
1978	339,155	669,720	37.9	7,547,510	11.270	110,042	222,462	2,778,779	449,197	892,182	38.1	10,326,289	11.574	1978
1977	337,396	645,853	36.7	6,620,557	10.251	114,992	230,051	2,622,822	452,388	875,904	37.1	9,243,379	10.553	1977
1976	339,021	645,748	36.4	5,897,181	9.132	115,107	231,038	2,434,283	454,128	876,786	36.9	8,331,464	9.502	1976
1975	339,945	621,691	35.1	5,166,768	8.311	117,217	233,214	2,279,525	457,162	854,905	35.9	7,446,293	8.710	1975
1974	393,212	771,977	37.7	5,732,017	7.425	119,183	241,150	2,170,827	512,395	1,013,127	37.9	7,902,844	7.800	1974
1973	392,851	787,955	38.5	4,972,953	6.311	115,763	235,000	1,837,475	508,614	1,022,955	38.6	6,810,428	6.658	1973
1972	364,074	709,894	37.3	4,172,287	5.877	114,294	230,408	1,677,013	478,368	940,302	37.6	5,849,300	6.221	1972
1971	366,982	690,431	36.1	3,600,764	5.215	120,287	241,070	1,582,178	487,269	931,501	36.7	5,182,942	5.564	1971
1970	403,115	771,886	36.7	3,679,658	4.767	128,081	257,852	1,554,077	531,196	1,029,738	37.2	5,233,735	5.082	1970
1969	415,301	835,154	38.6	3,813,449	4.566	128,718	263,821	1,517,511	544,019	1,098,975	38.7	5,330,960	4.851	1969
1968	420,684	829,837	37.7	3,570,606	4.303	130,873	265,280	1,443,005	551,557	1,095,117	38.0	5,013,611	4.578	1968
1967	424,153	818,486	37.0	3,330,529	4.069	130,990	265,231	1,355,014	555,143	1,083,717	37.4	4,685,543	4.324	1967
1966	446,712	889,190	38.2	3,571,600	4.017	128,835	263,312	1,322,503	575,547	1,152,502	38.4	4,894,103	4.247	1966
1965	458,539	901,984	37.7	3,549,102	3.935	125,312	256,224	1,247,956	583,851	1,158,208	38.0	4,797,058	4.142	1965
1964	434,654	869,447	38.3	3,300,516	3.796	118,901	244,658	1,171,823	553,555	1,114,105	38.5	4,472,339	4.014	1964

† Average of the monthly number of employees receiving pay after adjustment for turnover.

* Excludes other employment costs such as payroll taxes, supplemental unemployment benefits, pensions, insurance, workers compensation and thrift plans.

Table 8

Collective Bargaining Agreements With The United Steelworkers of America

Year	Effective Date of New Agreement	Periods of General Steel Strikes	Length (Calendar Days)
1983	Mar. 1, 1983	...	...
1980	Aug. 1, 1980	...	...
1977	Aug. 1, 1977	...	...
1974	Aug. 1, 1974	...	...
1971	Aug. 1, 1971	...	...
1968	Aug. 1, 1968	...	...
1965	Sept. 1, 1965	...	...
1963	June 29, 1963	...	...
1962	Apr. 6, 1962	...	...
1960	Jan. 4, 1960	July 15—Nov. 7, 1959	116
1956	Aug. 3, 1956	July 1—Aug. 3	34
1955	June 30, 1955	July 1	A Few Hours
1954	July 1, 1954	...	...
1953	June 12, 1953	...	...
1952	July 26, 1952	Apr. 29—May 2 June 2—July 26	3 55
1950	Nov. 30, 1950	...	...
1949	Nov. 11, 1949	Oct. 1—Nov. 11	42
1948	July 16, 1948	...	...
1947	Apr. 22, 1947	...	...
1946	Feb. 15, 1946	Jan. 21—Feb. 17	28

NOTE: Some companies have agreements with starting dates other than those listed above.

Table 9

BLS Index of Output Per Man-hour in the Steel Industry

(All Employees)

Year	1977 = 100	Year	1977 = 100
1953	70.0		
1954	66.8	1971	91.9
1955	75.9	1972	97.3
1956	74.8	1973	106.6
1957	72.9	1974	106.5
1958	67.4	1975	93.3
1959	75.7	1976	99.0
1960	71.2	1977	100.0
1961	73.4	1978	108.3
1962	77.1	1979	106.9
1963	80.6	1980	102.9
1964	84.1	1981	112.2
1965	87.5	1982[R]	91.3
1966	89.2	1983[P]	118.6
1967	86.4		
1968	89.5	Average Annual Increase*	
1969	90.0	1953-1983	1.6
1970	87.6	1963-1983	1.6
		1973-1983	0.6

**Based on least squares method.*

Source: United States Department of Labor, Bureau of Labor Statistics

NOTE: Although the output per man-hour data relate output to one input—labor time—they do not measure the specific contribution of labor, of capital, or of any other factor to production. In short, they do not reflect solely changes in the productiveness of labor. Rather, they reflect the joint effect of a number of interrelated influences such as changes in technology, capital investment per worker, utilization of capacity, layout and flow of material, skill of the work force, managerial skill, and labor-management relations.

Table 10

Occupational Injury/Illness

(Covering only those employees who were engaged in the production of iron and steel products as reported by companies comprising 86% of total raw steel production)

	1983	1982	1981	1980	1979
1. Aggregate number of man-hours (millions)	468	515	747	741	892
2. OSHA recordable injuries/illnesses:					
a. Fatalities	25	30	46	42	64
b. Lost workday cases	4,587	4,441	8,488	9,779	14,159
c. Other medical treatment cases	11,232	13,363	20,610	20,320	28,856
d. **Total** (2a through 2c)	**15,844**	**17,834**	**29,144**	**30,141**	**43,079**
3. Frequency rate (number of injuries/illnesses per 200,000 man-hours worked)	6,773	6,929	7,805	8,138	9,654
4. OSHA workdays lost (thousands)	126	141	238	246	323
5. Severity rate (days lost per 200,000 man-hours worked)	54	55	64	66	72

NOTE: Recordable injuries are reported as specified by the Bureau of Labor Statistics, U.S. Department of Labor pursuant to Section 24(a) of the Occupational Safety and Health Act of 1970.

Table 11

Wage Employees in the Iron and Steel Industry Classified by Age and by Length of Service

(Covering only those employees who were engaged in the production of iron and steel products as reported by companies comprising 90% of total raw steel production)

	1982		1981			1982		1981	
Years of Service	**No. of Employees***	**%**	**No. of Employees***	**%**	**Years of Age**	**No. of Employees***	**%**	**No. of Employees***	**%**
Under 5	37,961	14.5	51,968	17.9	Under 25	20,883	5.6	22,900	7.9
5 to 9	53,653	20.5	57,347	19.7	25 to 34	74,946	31.0	89,208	30.7
10 to 14	43,305	16.5	42,472	14.6	35 to 44	59,502	22.7	60,563	20.8
15 to 24	51,209	19.6	53,337	18.3	45 to 54	58,760	22.4	65,606	22.6
25 to 34	57,169	21.9	68,013	23.4	55 to 64	46,515	17.9	51,205	17.6
35 and over	18,284	7.0	17,602	6.1	65 and over	975	0.4	1,257	0.4
Total	**261,581**	**100.0**	**290,739**	**100.0**	**Total**	**261,581**	**100.0**	**290,739**	**100.0**
Average service	17.1		16.6		Average age	41.6		41.3	

*Employees at year end, including employees on layoff, disability, and leave of absence other than military. Excludes employees terminated or retired during the year. 1983 data was not available at the time this Report went to press.

SHIPMENTS—STEEL PRODUCTS

Data is this section are expressed in terms of Gross Shipments and Net Shipments. Gross shipments represent the aggregate tonnage shipped by reporting companies including steel consumed by the companies in their own construction, maintenance, repair and operations, as well as in their own manufacture of fabricated products. Net shipments eliminate tonnage duplication by deducting from the gross total those shipments from one reporting company to another reporting company for conversion, further processing or resale.

Table 12

Shipments of Steel Mill Products—1983
All Grades—(Carbon, Alloy and Stainless)

(Net Tons)

Steel Products	Total Gross Shipments	Less Shipments to Reporting Companies	Total Net Shipments	Percent of Total Net Shipments
Ingots and steel castings	238,179	164	238,015	0.4
Blooms, slabs, billets	810,741	50,514	760,227	1.1
Skelp	11,294	6,298	4,996	. . .
Wire rods	3,067,707	210,313	2,857,394	4.2
Total Semi-Finished	**4,127,921**	**267,289**	**3,860,632**	**5.7**
Structural shapes (3" & over)	3,364,079	. . .	3,364,079	5.0
Steel piling	257,971	. . .	257,971	0.4
Plates	3,820,334	4,265	3,816,069	5.6
Total Shapes and Plates	**7,442,384**	**4,265**	**7,438,119**	**11.0**
Rails—Standard (over 60 lbs.)	611,070	. . .	611,070	0.9
—All other	23,141	. . .	23,141	. . .
Joint bars	5,909	. . .	5,909	. . .
Tie plates	116,249	. . .	116,249	0.2
Track spikes	55,323	1	55,322	0.1
Wheels (rolled and forged)	51,463	. . .	51,463	0.1
Axles	20,753	. . .	20,753	. . .
Total Rails and Accessories	**883,908**	**1**	**883,907**	**1.3**
Bars—Hot Rolled	5,647,217	517,788	5,129,429	7.6
—Bar-Size light shapes	1,070,093	10	1,070,083	1.6
—Reinforcing	4,306,042	30,972	4,275,070	6.3
—Cold finished	1,179,404	429	1,178,975	1.7
Tool steel	46,471	306	46,165	0.1
Total Bars and Tool Steel	**12,249,227**	**549,505**	**11,699,722**	**17.3**

Table 12 *(continued)*

Shipments of Steel Mill Products—1983
All Grades—(Carbon, Alloy and Stainless)

(Net Tons)

Steel Products	Total Gross Shipments	Less Shipments to Reporting Companies	Total Net Shipments	Percent of Total Net Shipments
Pipe and tubing—Standard	827,526	15,794	811,732	1.2
—Oil country goods	695,959	18,534	677,425	1.0
—Line	624,086	705	623,381	0.9
—Mechanical	768,340	20,841	747,499	1.1
—Pressure	88,298	57	88,241	0.1
—Structural	238,027	569	237,458	0.4
—Stainless	57,572	1,161	56,411	0.1
Total Pipe and Tubing	**3,299,808**	**57,661**	**3,242,147**	**4.8**
Wire—Drawn	1,025,197	14,787	1,010,410	1.5
—Nails and staples	163,295	358	162,937	0.2
—Barbed and twisted	99,377	960	98,417	0.1
—Woven wire fence	48,931	...	48,931	0.1
—Bale ties and baling wire	38,509	...	38,509	0.1
Total Wire and Wire Products	**1,375,309**	**16,105**	**1,359,204**	**2.0**
Black plate	354,339	2,211	352,128	0.5
Tin plate	2,924,846	...	2,924,846	4.4
Tin Free steel	961,868	...	961,868	1.4
Tin Mill products—All other	69,415	...	69,415	0.1
Total Tin Mill Products	**4,310,468**	**2,211**	**4,308,257**	**6.4**
Sheets—Hot rolled	12,670,089	1,051,319	11,618,770	17.2
—Cold rolled	13,884,249	103,230	13,781,019	20.4
Sheets & strip—Galvanized—Hot dipped	5,806,966	14,245	5,792,721	8.6
—Electrolytic	641,357	163	641,194	0.9
—All other metallic coated	945,870	...	945,870	1.4
—Electrical	487,467	29,199	458,268	0.7
Strip—Hot rolled	739,884	106,539	633,345	0.9
—Cold rolled	925,753	5,401	920,352	1.4
Total Sheets and Strip	**36,101,635**	**1,310,096**	**34,791,539**	**51.5**
Total Shipments	**69,790,660**	**2,207,133**	**67,583,527**	**100.0**

Table 13

Shipments of Steel Mill Products—1983 By Grades (Carbon, Alloy and Stainless)

(Net tons)

Steel Products	Carbon	%	Alloy	%	Stainless	%	Total	%
Ingots and steel castings	56,235	0.1	175,067	2.9	6,713	0.6	238,015	0.4
Blooms, slabs, billets	471,876	0.8	260,243	4.2	28,108	2.4	760,227	1.1
Skelp	4,996	...	...	...	...	...	4,996	...
Wire rods	2,795,340	4.6	27,076	0.4	34,978	3.1	2,857,394	4.2
Total Semi-Finished	**3,328,447**	**5.5**	**462,386**	**7.5**	**69,799**	**6.1**	**3,860,632**	**5.7**
Structural shapes (3" & over)	2,902,353	4.8	461,726	7.5	...	...	3,364,079	5.0
Steel piling	233,631	0.4	24,340	0.4	...	...	257,971	0.4
Plates	2,802,104	4.6	913,124	14.8	100,841	8.9	3,816,069	5.6
Total Shapes and Plates	**5,938,088**	**9.8**	**1,399,190**	**22.7**	**100,841**	**8.9**	**7,438,119**	**11.0**
Rails:								
Standard (over 60 lbs.)	567,919	1.0	43,151	0.7	...	...	611,070	0.9
All other	23,141	...	...	...	...	...	23,141	...
Joint bars	5,909	...	...	...	...	...	5,909	...
Tie plates	116,249	0.2	...	...	...	...	116,249	0.2
Track spikes	55,322	0.1	...	...	...	...	55,322	0.1
Wheels (rolled and forged)	50,250	0.1	1,213	...	...	...	51,463	0.1
Axles	20,753	...	...	...	...	...	20,753	...
Total Rails and Accessories	**839,543**	**1.4**	**44,364**	**0.7**	...	...	**883,907**	**1.3**
Bars:								
Hot rolled	3,655,584	6.1	1,445,550	23.5	28,295	2.5	5,129,429	7.6
Bar-Sized light shapes	1,070,083	1.8	(Included in Hot Rolled Bars)				1,070,083	1.6
Reinforcing	4,245,853	7.0	29,217	0.5	...	...	4,275,070	6.3
Cold finished	955,825	1.6	150,338	2.4	72,812	6.4	1,178,975	1.7
Tool steel	...	...	46,165	0.8	...	...	46,165	0.1
Total Bars and Tool Steel	**9,927,345**	**16.5**	**1,671,270**	**27.2**	**101,107**	**8.9**	**11,699,722**	**17.3**
Pipe and tubing:								
Standard	810,720	1.4	1,012	...	...	...	811,732	1.2
Oil country goods	619,105	1.0	58,320	1.0	...	...	677,425	1.0
Line	541,005	0.9	82,376	1.3	...	...	623,381	0.9
Mechanical	489,457	0.8	258,042	4.2	...	...	747,499	1.1
Pressure	66,134	0.1	22,107	0.4	...	...	88,241	0.1
Structural	236,949	0.4	509	...	...	...	237,458	0.4
Stainless	...	...	...	...	56,411	5.0	56,411	0.1
Total Pipe and Tubing	**2,763,370**	**4.6**	**422,366**	**6.9**	**56,411**	**5.0**	**3,242,147**	**4.8**

Table 13 *(continued)*

Shipments of Steel Mill Products—1983
By Grades (Carbon, Alloy and Stainless)

(Net tons)

Steel Products	Carbon	%	Alloy	%	Stainless	%	Total	%
Wire:								
Drawn	970,275	1.6	13,575	0.2	26,560	2.3	1,010,410	1.5
Nails and staples	162,937	0.3	...	...	...	...	162,937	0.2
Barbed and twisted	98,417	0.1	...	...	...	...	98,417	0.1
Woven wire fence	48,931	0.1	...	...	...	...	48,931	0.1
Bale ties and bailing wire	38,509	0.1	...	...	...	...	38,509	0.1
Total Wire and Wire Products	**1,319,069**	**2.2**	**13,575**	**0.2**	**26,560**	**2.3**	**1,359,204**	**2.0**
Black plate	352,128	0.6	...	...	...	...	352,128	0.5
Tin plate	2,924,846	4.8	...	...	...	...	2,924,846	4.4
Tin Free Steel	961,868	1.6	...	...	...	...	961,868	1.4
Tin mill products—All Other	69,415	0.1	...	...	...	...	69,415	0.1
Total Tin Mill Products	**4,308,257**	**7.1**	...	...	...	...	**4,308,257**	**6.4**
Sheets:								
Hot rolled	10,536,148	17.5	1,060,101	17.2	22,521	2.0	11,618,770	17.2
Cold rolled	12,994,603	21.6	221,178	3.6	565,238	49.7	13,781,019	20.4
Sheets and strip:								
Galvanized:								
Hot dipped	5,485,355	9.1	307,366	5.0	...	...	5,792,721	8.6
Electrolytic	641,194	1.1	...	...	...	...	641,194	0.9
All other metallic coated	944,656	1.5	1,214	...	...	...	945,870	1.4
Electrical	48,170	0.1	410,098	6.7	...	...	458,268	0.7
Strip:								
Hot rolled	547,707	0.9	82,377	1.3	3,261	0.3	633,345	0.9
Cold rolled	670,399	1.1	58,592	1.0	191,361	16.8	920,352	1.4
Total Sheets and Strip	**31,868,232**	**52.9**	**2,140,926**	**34.8**	**782,381**	**68.8**	**34,791,539**	**51.5**
Total Net Shipments	**60,292,351**	**100.0**	**6,154,077**	**100.0**	**1,137,099**	**100.0**	**67,583,527**	**100.0**
Shipments to reporting companies	1,914,186	...	191,271	...	101,676		2,207,133	
Total Gross Shipments	**62,206,537**	...	**6,345,348**	...	**1,238,775**	...	69,790,660	...

Table 14

Net Shipments of Steel Mill Products—All Grades

(Thousands of net tons)

Steel Products	1983		1982		1981		1980		1979	
	Tons	%	Tons	%	Tons	%	Tons	%	Tons	%
Ingots and steel castings	238	0.4	246	0.4	461	0.5	445	0.6	504	0.5
Blooms, slabs and billets	760	1.1	1,035	1.7	2,185	2.5	2,185	2.6	2,095	2.1
Skelp	5	...	2	...	18	...	24	...	35	...
Wire rods	2,857	4.2	2,411	3.9	3,040	3.4	2,688	3.2	2,861	2.9
Structural shapes (3" & over)	3,364	5.0	3,313	5.4	4,929	5.6	4,861	5.8	5,303	5.3
Steel piling	258	0.4	250	0.4	282	0.3	346	0.4	293	0.3
Plates	3,816	5.6	4,146	6.7	7,441	8.4	8,080	9.6	9,035	9.0
Rails—Standard (over 60 lbs.)	611	0.9	498	0.8	907	1.0	1,085	1.3	1,122	1.1
—All other	23	...	19	...	48	0.1	53	0.1	48	0.1
Joint bars	6	...	8	...	10	...	17	...	19	...
Tie plates	116	0.2	98	0.2	213	0.3	205	0.2	337	0.3
Track spikes	55	0.1	51	0.1	81	0.1	85	0.1	101	0.1
Wheels (rolled and forged)	52	0.1	72	0.1	110	0.1	159	0.2	180	0.2
Axles	21	...	36	0.1	100	0.1	193	0.2	218	0.2
Bars—Hot rolled	5,129	7.6	4,757	7.7	6,890	7.8	5,961	7.1	8,493	8.5
—Bar-Size light shapes	1,070	1.6	948	1.5	1,473	1.7	950	1.1	1,466	1.5
—Reinforcing	4,275	6.3	4,049	6.6	4,612	5.2	4,684	5.6	5,303	5.3
—Cold finished	1,179	1.7	1,015	1.7	1,631	1.8	1,585	1.9	2,245	2.2
Tool steel	46	0.1	44	0.1	67	0.1	79	0.1	95	0.1
Pipe and tubing—Standard	812	1.2	962	1.5	1,858	2.1	1,773	2.1	1,952	1.9
—Oil country goods	678	1.0	1,759	2.9	4,241	4.8	3,612	4.3	2,458	2.5
—Line	623	0.9	1,093	1.8	2,047	2.3	1,793	2.1	1,569	1.6
—Mechanical	748	1.1	762	1.2	1,348	1.5	1,159	1.4	1,507	1.5
—Pressure	88	0.1	108	0.2	154	0.2	149	0.2	170	0.2
—Structural	238	0.4	301	0.5	598	0.7	569	0.7	541	0.5
—Stainless	57	0.1	41	0.1	39	...	41	0.1	46	...
Wire—Drawn	1,010	1.5	1,003	1.6	1,440	1.6	1,392	1.7	1,918	1.9
—Nails and staples	163	0.2	123	0.2	150	0.2	173	0.2	257	0.2
—Barbed and twisted	98	0.1	65	0.1	81	0.1	70	0.1	67	0.1
—Woven wire fence	49	0.1	74	0.1	95	0.1	92	0.1	122	0.1
—Bale ties and baling wire	39	0.1	43	0.1	49	0.1	41	...	85	0.1

Table 14 *(continued)*

Net Shipments of Steel Mill Products—All Grades

(Thousands of net tons)

	1983		1982		1981		1980		1979	
Steel Products	**Tons**	**%**	**Tons**	**%**	**Tons**	**%**	**Tons**	**%**	**Tons**	**%**
Black plate	352	0.5	319	0.5	421	0.5	504	0.6	629	0.6
Tin plate	2,925	4.4	3,018	4.9	3,490	3.9	4,166	5.0	4,604	4.6
Tin Free Steel	962	1.4	918	1.5	948	1.1	978	1.1	1,003	1.0
Tin Mill products—All other	69	0.1	66	0.1	68	0.1	61	0.1	75	0.1
Sheets—Hot rolled	11,619	17.2	9,052	14.7	13,451	15.2	12,116	14.5	15,995	16.0
—Cold rolled	13,781	20.4	11,132	18.1	14,396	16.3	13,313	15.9	17,284	17.2
Sheets and strip—Galvanized—Hot dipped	5,793	8.6	4,878	7.9	5,375	6.1	4,787	5.7	5,810	5.8
—Electrolytic	641	0.9	491	0.8	548	0.6	457	0.5	531	0.5
—All other metallic coated	946	1.4	694	1.1	836	0.9	722	0.9	975	1.0
—Electrical	458	0.7	445	0.7	599	0.7	601	0.7	697	0.7
Strip—Hot rolled	633	0.9	498	0.8	660	0.7	669	0.8	984	1.0
—Cold rolled	920	1.4	724	1.2	1,060	1.2	930	1.1	1,230	1.2
Total Steel Mill Products	**67,583**	**100.0**	**61,567**	**100.0**	**88,450**	**100.0**	**83,853**	**100.0**	**100,262**	**100.0**
Carbon	60,292	89.2	53,947	87.6	76,554	86.6	73,358	87.5	87,879	87.6
Stainless and heat resisting	1,137	1.7	894	1.5	1,163	1.3	1,127	1.3	1,361	1.4
Alloy (other than stainless)	6,154	9.1	6,726	10.9	10,732	12.1	9,368	11.2	11,022	11.0
Total Steel Mill Product Shipment By Months*										
January	4,583		5,608		7,616		7,952		8,206	
February	4,588		5,434		7,375		7,690		7,996	
March	5,969		6,163		8,422		8,711		10,293	
April	5,399		5,488		8,108		7,296		7,438	
May	5,612		5,149		7,932		6,440		10,187	
June	5,986		5,372		8,148		5,848		8,977	
July	5,045		4,514		7,115		5,353		8,319	
August	5,789		4,724		7,020		5,745		8,475	
September	5,893		4,760		7,039		6,682		7,929	
October	6,078		4,309		6,723		7,458		8,355	
November	6,014		4,088		5,783		7,038		7,361	
December	6,269		4,234		5,666		7,591		6,743	
Total*	**67,584**		**61,567**		**87,014**		**83,853**		**100,262**	

*Totals include adjustments not shown in monthly figures.

Table 14 *(continued)*

Net Shipments of Steel Mill Products—All Grades

(Thousands of net tons)

Steel Products	1978		1977		1976		1975		1974	
	Tons	%	Tons	%	Tons	%	Tons	%	Tons	%
Ingots and steel castings	516	0.5	423	0.5	488	0.6	559	0.7	684	0.6
Blooms, slabs and billets	1,969	2.0	1,736	1.9	1,967	2.2	2,020	2.5	2,937	2.7
Skelp	31	0.1	31	...	28	...	34	0.1	27	...
Wire rods	2,554	2.6	1,804	2.0	1,901	2.1	1,298	1.6	1,861	1.7
Structural shapes (3" & over)	4,667	4.7	4,035	4.4	3,857	4.2	4,697	5.9	6,548	6.0
Steel piling	360	0.4	347	0.4	330	0.4	424	0.5	662	0.6
Plates	8,601	8.8	7,529	8.3	7,160	8.0	8,761	11.0	10,919	10.0
Rails—Standard (over 60 lbs.)	946	1.0	1,109	1.2	1,303	1.5	1,179	1.5	924	0.8
—All other	38	...	37	0.1	37	...	70	0.1	66	0.1
Joint bars	14	...	17	...	19	...	29	...	30	...
Tie plates	255	0.2	264	0.3	250	0.3	222	0.3	269	0.2
Track spikes	97	0.1	103	0.1	105	0.1	88	0.1	88	0.1
Wheels (rolled and forged)	165	0.2	189	0.2	175	0.2	216	0.2	221	0.2
Axles	188	0.2	144	0.2	128	0.2	161	0.2	187	0.2
Bars—Hot rolled	8,758	9.0	8,369	9.2	7,822	8.8	7,410	9.3	10,080	9.2
—Bar-Size light shapes	1,277	1.3	993	1.1	842	0.9	736	0.9	982	0.9
—Reinforcing	4,704	4.8	4,179	4.6	3,876	4.3	3,666	4.6	5,089	4.6
—Cold finished	2,084	2.1	1,794	1.9	1,618	1.8	1,486	1.8	2,250	2.1
Tool steel	92	0.1	85	0.1	76	0.1	69	0.1	113	0.1
Pipe and tubing—Standard	2,054	2.1	1,853	2.0	1,782	2.0	2,096	2.6	2,918	2.6
—Oil country goods	2,647	2.7	2,405	2.6	1,678	1.9	2,577	3.2	2,262	2.1
—Line	1,571	1.6	1,330	1.5	1,019	1.1	1,721	2.2	2,373	2.2
—Mechanical	1,480	1.5	1,362	1.5	1,260	1.4	1,202	1.5	1,503	1.4
—Pressure	184	0.2	218	0.2	197	0.2	332	0.4	324	0.3
—Structural	423	0.4	290	0.3	298	0.3	258	0.3	411	0.4
—Stainless	40	0.1	32	0.1	31	0.1	42	0.1	53	...
Wire—Drawn	1,968	2.0	1,894	2.1	1,921	2.1	1,625	2.0	2,527	2.3
—Nails and staples	289	0.3	278	0.3	281	0.3	265	0.3	332	0.3
—Barbed and twisted	58	0.1	55	...	71	0.1	81	0.1	68	0.1
—Woven wire fence	109	0.1	113	0.1	134	0.1	124	0.2	128	0.1
—Bale ties and baling wire	87	0.1	60	0.1	54	0.1	59	0.1	117	0.1

Table 14 *(continued)*

Net Shipments of Steel Mill Products—All Grades

(Thousands of net tons)

Steel Products	1978		1977		1976		1975		1974	
	Tons	%	Tons	%	Tons	%	Tons	%	Tons	%
Black plate	623	0.6	636	0.7	614	0.7	486	0.6	701	0.6
Tin plate	4,489	4.6	4,700	5.1	4,784	5.3	4,151	5.2	5,549	5.1
Tin Free Steel	918	0.9	974	1.1	967	1.1	1,000	1.2	1,211	1.1
Tin Mill products—All other	70	0.1	72	0.1	71	0.1	50	0.1	67	0.1
Sheets—Hot rolled	15,447	15.8	14,558	16.0	15,090	16.9	11,222	14.1	15,774	14.4
—Cold rolled	17,821	18.2	17,684	19.4	18,265	20.4	12,841	16.1	18,275	16.7
Sheets and strip—Galvanized—Hot dipped	5,889	6.0	5,293	5.8	4,914	5.5	3,537	4.4	5,772	5.3
—Electrolytic	541	0.6	364	0.4	265	0.3	183	0.2	333	0.3
—All other metallic coated	997	1.0	923	1.0	844	0.9	555	0.7	998	0.9
—Electrical	639	0.6	597	0.6	577	0.7	563	0.7	859	0.8
Strip—Hot rolled	1,027	1.0	1,082	1.2	1,196	1.3	961	1.2	1,405	1.3
—Cold rolled	1,248	1.3	1,186	1.3	1,152	1.3	901	1.1	1,575	1.4
Total Steel Mill Products	**97,935**	**100.0**	**91,147**	**100.0**	**89,447**	**100.0**	**79,957**	**100.0**	**109,472**	**100.0**
Carbon	86,187	88.0	81,268	89.2	80,320	89.8	70,764	88.5	97,948	89.5
Stainless and heat resisting	1,191	1.2	1,118	1.2	1,019	1.1	757	0.9	1,345	1.2
Alloy (other than stainless)	10,557	10.8	8,761	9.6	8,108	9.1	8,436	10.6	10,179	9.3
Total Steel Mill Product Shipment By Months*										
January	7,323		6,459		7,246		8,324		9,779	
February	7,539		6,690		6,840		6,978		8,714	
March	8,718		8,750		8,259		7,204		10,303	
April	8,055		7,981		7,780		6,955		9,698	
May	8,610		8,369		8,215		6,394		10,047	
June	8,787		8,811		8,537		6,178		9,298	
July	7,608		6,986		7,480		5,757		8,843	
August	8,293		7,737		7,519		6,327		9,084	
September	8,252		7,662		7,646		7,632		8,601	
October	8,599		7,400		6,996		6,377		9,374	
November	7,813		7,188		6,717		5,703		8,431	
December	8,196		7,020		6,334		6,071		7,353	
Total*	**97,935**		**91,147**		**89,447**		**79,957**		**109,472**	

*Totals include adjustments not shown in monthly figures.

Table 15

Net Shipments of Steel Mill Products by Market Classifications
All Grades

(Thousands of net tons)

Market Classifications	1983		1982		1981		1980		1979	
	Tons	%	Tons	%	Tons	%	Tons	%	Tons	%
Steel for converting and processing	4,403	6.5	3,222	5.2	5,058	5.7	4,117	4.9	5,058	5.0
Independent forgers (not elsewhere classified)	573	0.8	579	0.9	1,035	1.2	933	1.1	1,254	1.3
Industrial fasteners	440	0.7	404	0.7	648	0.7	590	0.7	934	0.9
Steel service centers & distributors	16,710	24.7	13,067	21.2	17,637	19.9	16,172	19.3	18,246	18.2
Construction, including maintenance	7,271	10.8	6,283	10.2	8,446	9.5	8,742	10.4	9,978	10.0
Contractors' products	2,703	4.0	2,287	3.7	3,230	3.7	3,148	3.8	3,745	3.7
Subtotal construction and contractors' products	**9,974**	**14.8**	**8,570**	**13.9**	**11,676**	**13.2**	**11,890**	**14.2**	**13,723**	**13.7**
Automotive:										
Vehicles, parts, etc.	12,052	17.8	9,111	14.8	12,808	14.5	11,855	14.2	18,099	18.0
Independent forgers	268	0.4	177	0.3	346	0.4	269	0.3	522	0.5
Total	**12,320**	**18.2**	**9,288**	**15.1**	**13,154**	**14.9**	**12,124**	**14.5**	**18,621**	**18.5**
Rail transportation:										
Freight cars, pass. cars & locomotives	217	0.3	382	0.6	976	1.1	1,884	2.3	2,445	2.4
Rails and all other	720	1.1	638	1.1	1,186	1.3	1,271	1.5	1,666	1.7
Total	**937**	**1.4**	**1,020**	**1.7**	**2,162**	**2.5**	**3,155**	**3.8**	**4,111**	**4.1**
Shipbuilding and marine equipment	471	0.7	399	0.6	1,101	1.3	1,201	1.4	924	0.9
Aircraft and aerospace	21		30		37		53	0.1	60	0.1
Oil and gas industry	1,296	1.9	2,745	4.5	6,238	7.1	5,371	6.4	3,739	3.7
Mining, quarrying and lumbering	262	0.4	254	0.4	493	0.6	454	0.5	569	0.6
Agricultural:										
Agricultural machinery	417	0.6	425	0.7	820	0.9	852	1.0	1,306	1.3
All other	282	0.4	519	0.8	409	0.5	388	0.5	665	0.7
Total	**699**	**1.0**	**944**	**1.5**	**1,229**	**1.4**	**1,240**	**1.5**	**1,971**	**2.0**
Machinery, industrial equipment & tools	2,484	3.7	2,584	4.2	4,624	5.2	4,543	5.4	5,996	6.0
Electrical equipment	2,337	3.5	2,003	3.3	2,600	2.9	2,441	2.9	2,819	2.8
Appliances, utensils and cutlery	1,618	2.4	1,337	2.2	1,775	2.0	1,725	2.1	2,140	2.1
Other domestic and commercial equipment	1,363	2.0	1,247	2.0	1,622	1.8	1,701	2.0	2,073	2.1
Containers, packaging and shipping materials										
Cans and closures	3,443	5.1	3,480	5.7	3,786	4.3	4,163	5.0	4,994	4.9
Barrels, drums and shipping pails	535	0.8	536	0.9	744	0.8	725	0.9	939	1.0
All other	554	0.8	454	0.7	762	0.9	663	0.7	839	0.9
Total	**4,532**	**6.7**	**4,470**	**7.3**	**5,292**	**6.0**	**5,551**	**6.6**	**6,772**	**6.8**
Ordinance and other military	244	0.4	203	0.3	166	0.2	177	0.2	204	0.2
Export (reporting companies only)	544	0.8	832	1.4	1,845	2.1	2,595	3.1	2,007	2.0
Nonclassified shipments	6,355	9.4	8,369	13.6	10,058	11.4	7,820	9.3	9,041	9.0
Total Shipments	**67,583**	**100.0**	**61,567**	**100.0**	**88,450**	**100.0**	**83,853**	**100.0**	**100,262**	**100.0**

Table 15 *(continued)*

Net Shipments of Mill Products by Market Classifications All Grades

(Thousands of net tons)

Market Classifications	1978		1977		1976		1975		1974	
	Tons	%	Tons	%	Tons	%	Tons	%	Tons	%
Steel for coverting and processing	4,612	4.7	3,679	4.0	4,036	4.5	3,255	4.1	4,486	4.1
Independent forgers (not elsewhere classified)	1,192	1.2	998	1.1	952	1.1	1,098	1.4	1,339	1.2
Industrial fasteners	870	0.9	848	0.9	912	1.0	675	0.8	1,331	1.2
Steel service centers & distributors	17,333	17.7	15,346	16.8	14,615	16.3	12,700	15.9	20,400	18.6
Construction, including maintenance	9,612	9.8	7,553	8.3	7,508	8.4	8,119	10.2	11,360	10.4
Contractors' products	3,480	3.6	4,500	4.9	4,502	5.0	3,927	4.9	6,249	5.7
Subtotal construction contractors' products	**13,092**	**13.4**	**12,053**	**13.2**	**12,010**	**13.4**	**12,046**	**15.1**	**17,609**	**16.1**
Automotive:										
Vehicles, parts, etc.	20,651	21.1	20,882	22.9	20,667	23.1	14,750	18.4	18,256	16.7
Independent forgers	602	0.6	608	0.7	684	0.8	464	0.6	672	0.6
Total	**21,253**	**21.7**	**21,490**	**23.6**	**21,351**	**23.9**	**15,214**	**19.0**	**18,928**	**17.3**
Rail transportation:										
Freight cars, pass. cars & locomotives	2,188	2.2	1,709	1.9	1,469	1.6	1,836	2.3	2,132	1.9
Rails and all other	1,361	1.4	1,529	1.7	1,587	1.8	1,316	1.6	1,285	1.2
Total	**3,549**	**3.6**	**3,238**	**3.6**	**3,056**	**3.4**	**3,152**	**3.9**	**3,417**	**3.1**
Shipbuilding and marine equipment	845	0.9	869	1.0	969	1.1	1,413	1.8	1,339	1.2
Aircraft and aerospace	60	0.1	63	0.1	59	0.1	69	0.1	79	0.1
Oil and gas industry	4,140	4.3	3,650	4.0	2,653	3.0	4,171	5.2	4,210	3.9
Mining, quarrying and lumbering	508	0.5	486	0.5	536	0.6	596	0.7	644	0.6
Agricultural:										
Agricultural machinery	1,080	1.1	1,017	1.1	1,209	1.4	1,055	1.3	1,236	1.1
All other	725	0.7	631	0.7	575	0.6	374	0.5	623	0.6
Total	**1,805**	**1.8**	**1,648**	**1.8**	**1,784**	**2.0**	**1,429**	**1.8**	**1,859**	**1.7**
Machinery, industrial equipment & tools	5,992	6.1	5,566	6.1	5,180	5.8	5,173	6.5	6,440	5.9
Electrical equipment	2,811	2.9	2,639	2.9	2,671	3.0	2,173	2.7	3,242	3.0
Appliances, utensils and cutlery	2,094	2.1	2,129	2.3	1,950	2.2	1,653	2.1	2,412	2.2
Other domestic and commercial equipment	1,889	1.9	1,846	2.0	1,813	2.0	1,390	1.7	1,941	1.8
Containers, packaging and shipping materials:										
Cans and closures	4,950	4.9	5,173	5.7	5,301	5.9	4,859	6.0	6,349	5.8
Barrels, drums and shipping pails	809	0.9	768	0.8	859	1.0	601	0.8	1,026	0.9
All other	836	0.9	773	0.9	754	0.8	593	0.8	843	0.8
Total	**6,595**	**6.7**	**6,714**	**7.4**	**6,914**	**7.7**	**6,053**	**7.6**	**8,218**	**7.5**
Ordnance and other military	207	0.2	193	0.2	219	0.2	405	0.5	654	0.6
Export (reporting companies only)	1,224	1.3	1,076	1.2	1,839	2.1	1,755	2.2	3,961	3.6
Nonclassified shipments	7,864	8.0	6,616	7.3	5,928	6.6	5,537	6.9	6,963	6.3
Total Shipments	**97,935**	**100.0**	**91,147**	**100.0**	**89,447**	**100.0**	**79,957**	**100.0**	**109,472**	**100.0**

Table 16

Shipments of Steel Mill Products by Market Classification—1983
All Grades

(Net Tons)

Products	Steel for Converting and Processing			Independent Forgers (Not elsewhere classified)	Industrial Fasteners	Steel Service Centers and Distributors	Construction Including Maintenance	Contractors' Products
	Total Shipments	Less Shipments to Reporting Companies	Net Shipments					
Ingots, blooms, billets, slabs	334,149	50,678	283,471	240,562	9,810	72,367	21,778	2,056
Skelp	11,294	6,298	4,996	...	...	...	...	...
Wire rods	1,525,736	210,313	1,315,423	2	144,173	15,717	553,656	65,983
Structural shapes (3" & over)	15,521	...	15,521	5	...	516,200	1,772,454	5,552
Steel piling	...	...	...	...	...	20,340	225,424	...
Plates	64,734	4,265	60,469	974	622	1,259,340	869,517	45,305
Rails	...	...	...	...	...	72,677	8,742	...
Rail Accessories	1	1	...	3	7	14,091	9,399	...
Wheels (rolled and forged)	...	...	...	...	...	49	681	...
Axles	...	...	...	...	...	...	375	...
Bars—Hot rolled (including light shapes)	752,400	517,798	234,602	331,101	133,524	900,754	302,879	33,298
—Reinforcing	46,784	30,972	15,812	10	267	453,479	1,654,378	62,558
—Cold finished	26,018	429	25,589	330	11,796	304,677	1,702	9,876
Tool steel	306	306	...	...	...	...	...	...
Pipe and tubing—Standard	36,464	15,794	20,670	...	...	555,887	8,411	30,801
—Oil country goods	21,559	18,534	3,025	...	...	44,184	11,275	-21
—Line	1,305	705	600	...	...	174,619	25,470	217
—Mechanical	25,742	20,841	4,901	61	84	139,096	4,768	5,597
—Pressure	111	57	54	...	...	33,563	219	176
—Structural	2,264	569	1,695	...	...	141,976	24,816	833
—Stainless	1,593	1,161	432	...	...	16,250	2,233	238
Wire—Drawn	190,641	14,787	175,854	4	68,483	,482	237,129	57,051
—Nails and staples	1,975	358	1,617	...	...	91,839	62,920	16
—Other merchant wire products	1,485	960	525	...	...	100,054	48,433	254
Black plate	23,570	2,211	21,359	...	...	65,155	9,744	33,145
Tin plate	16,284	...	16,284	...	...	249,271	2	657
Tin free steel	491	...	491	...	...	28,421	...	25
Tin Mill products—All other	...	...	...	...	...	24,345	...	454
Sheets—Hot rolled	2,557,668	1,051,319	1,506,349	247	12,904	4,879,924	477,917	441,695
—Cold rolled	682,138	103,230	578,908	...	1,569	4,107,492	50,047	730,014
Sheets and strip—Galvanized	61,077	14,408	46,669	...	30,789	2,002,373	679,633	1,073,593
—All other metallic coated	10,576	...	10,576	...	...	166,718	174,547	54,910
—Electrical	29,390	29,199	191	...	...	47,015	51	507
Strip—Hot rolled	118,848	106,539	12,309	7	14,682	48,658	29,371	7,804
—Cold rolled	50,514	5,401	45,113	—	11,412	79,861	3,036	39,980
Total—All Grades	**6,610,638**	**2,207,133**	**4,403,505**	**573,306**	**440,122**	**16,709,874**	**7,271,007**	**2,702,574**
%	...	...	65	0.8	0.7	24.7	10.8	4.0

Table 16 *(continued)*

Shipments of Steel Mill Products by Market Classification—1983
All Grades

(Net tons)

Products	Automotive	Rail Transportation	Shipbuilding and Marine Equipment	Aircraft and Aerospace	Oil and Gas Industry	Mining, Quarrying and Lumbering	Agricultural	Machinery, Industrial Equipment and Tools
Ingots, blooms, billets, slabs	114,392	1,314	41	9,179	17,377	1,487	17,108	51,038
Skelp	...	...	...	...	...	...	...	...
Wire rods	111,238	64	16	2	1,557	25	26,930	412,616
Structural shapes (3" & over)	10,865	26,936	54,135	67	10,745	1,566	10,947	69,048
Steel piling	...	3,355	434	...	381	91	...	...
Plates	68,114	85,225	383,834	5,408	149,945	19,021	45,061	470,906
Rails	...	540,646	900	...	...	1,469	...	4,297
Rail Accessories	...	107,026	5	...	...	100	...	...
Wheels (rolled and forged)	...	48,291	8	...	...	321	...	1,359
Axles	...	19,632	...	...	...	168	...	54
Bars—Hot rolled (including light shapes)	1,454,323	72,008	10,156	9,455	133,680	158,559	95,039	401,604
—Reinforcing	...	...	...	...	5,341	39,167	474	5,906
—Cold finished	118,358	852	2,071	1,859	2,466	2,532	12,154	139,095
Tool steel	...	...	...	...	...	...	...	...
Pipe and tubing—Standard	285	270	400	...	55,657	406	1,797	3,727
—Oil country goods	...	...	...	26	540,795	...	...	...
—Line	...	...	...	...	322,457	8	1	4,793
—Mechanical	120,402	280	74	1,173	14,088	1,076	9,202	190,821
—Pressure	46	...	296	...	1,892	...	...	32,783
—Structural	1,690	65	12,508	...	27,899	49	3,715	525
—Stainless	833	...	774	156	603	...	9	8,057
Wire—Drawn	39,319	632	40	70	82	1,155	2,216	48,821
—Nails and staples	83	32	...	...	...	44	50	2,553
—Other merchant wire products	359	113	...	...	...	89	5,138	5,467
Black plate	7,147	22	...	...	...	...	2	2,443
Tin plate	63,602	23	...	...	...	...	35	3,515
Tin free steel	1,689	...	...	...	...	...	...	109
Tin Mill products—All other	36,499	...	...	...	...	...	...	1,710
Sheets—Hot rolled	2,931,465	25,028	2,234	552	3,631	31,273	166,811	230,812
—Cold rolled	4,432,915	2,097	999	677	4,325	866	37,987	196,409
Sheets and strip—Galvanized	1,908,386	973	1,239	37	...	722	213,305	39,935
—All other metallic coated	395,415	...	12	...	...	595	6,121	12,933
—Electrical	3,558	419	210	...	1,105	16	4	12,367
Strip—Hot rolled	317,829	711	...	1,966	2,071	1,481	43,051	77,623
—Cold rolled	181,539	1,308	317	639	42	3	1,474	55,027
Total—All Grades	**12,320,351**	**937,322**	**470,703**	**31,266**	**1,296,139**	**262,289**	**698,631**	**2,486,353**
%	18.2	1.4	0.7	...	1.9	0.4	1.0	3.7

Table 16 *(continued)*

Shipments of Steel Mill Products by Market Classification—1983
All Grades

(Net tons)

Products	Electrical Equipment	Appliances, Utensils, and Cutlery	Other Domestic and Commercial Equipment	Containers, Packaging and Shipping Materials	Ordnance and Other Military	Export (Reporting) Companies Only)	Non-classified Shipments	Total	%
Ingots, blooms, billets, slabs	32	...	6	11,847	62,307	59,047	23,023	**998,242**	1.5
Skelp	...	...	...	...	...	...	...	**4,996**	...
Wire rods	8,584	655	128,986	679	...	1,829	69,259	**2,857,394**	4.2
Structural shapes (3" & over)	2,060	...	1,995	...	154	26,684	839,145	**3,364,079**	5.0
Steel piling	...	...	...	...	...	7,946	...	**257,971**	0.4
Plates	79,946	3,240	13,076	1,988	63,504	34,194	156,380	**3,816,069**	5.6
Rails	...	...	...	...	...	4,480	1,000	**634,211**	0.9
Rail Accessories	...	...	...	...	...	1,591	45,258	**177,480**	0.3
Wheels (rolled and forged)	...	...	...	...	...	754	...	**51,463**	0.1
Axles	...	...	...	...	...	524	...	**20,753**	...
Bars—Hot rolled (including light shapes)	38,466	11,865	25,763	933	45,776	46,410	1,759,317	**6,199,512**	9.2
—Reinforcing	...	...	4	...	...	57,475	1,980,199	**4,275,070**	6.3
—Cold finished	13,586	10,839	11,802	18	12,000	4,272	493,101	**1,178,975**	1.7
Tool steel	...	...	...	...	...	615	45,550	**46,165**	0.1
Pipe and tubing—Standard	56,378	546	5,984	...	12,755	16,633	41,125	**811,732**	1.2
—Oil country goods	...	...	...	...	...	7,955	70,186	**677,425**	1.0
—Line	15,977	...	19	552	...	2,848	75,820	**623,381**	0.9
—Mechanical	3,433	4,757	16,260	2	2,257	14,676	214,491	**747,499**	1.1
—Pressure	9	...	13	3,654	3,156	507	11,873	**88,241**	0.1
—Structural	10,932	...	468	...	...	9	10,278	**237,458**	0.4
—Stainless	10	50	305	10	44	768	25,639	**56,411**	0.1
Wire—Drawn	12,091	17,244	82,140	15,904	189	2,150	166,354	**1,010,410**	1.5
—Nails and staples	...	...	...	...	18	211	3,554	**162,937**	0.2
—Other merchant wire products	4	...	18	23	...	20	25,360	**185,857**	0.3
Black plate	7,031	9,452	32,153	154,836	...	9,633	6	**352,128**	0.5
Tin plate	12,302	20,229	22,293	2,459,279	...	77,354	...	**2,924,846**	4.4
Tin free steel	7,416	160	1,155	900,245	...	22,157	...	**961,868**	1.4
Tin Mill products—all other	400	2,063	2,362	799	...	783	...	**69,415**	0.1
Sheets—Hot rolled	416,364	83,762	163,269	222,218	9,833	12,482	...	**11,618,770**	17.2
—Cold rolled	1,146,302	1,148,927	709,744	591,811	10,116	29,814	...	**13,781,019**	20.4
Sheets and strip—Galvanized	92,178	218,361	89,892	21,965	1,927	6,259	5,679	**6,433,915**	9.5
—All other metallic coated	6,536	26,870	11,601	4,246	51	41,977	32,762	**945,870**	1.4
—Electrical	365,878	6,873	2,280	...	...	17,408	386	**458,268**	0.7
Strip—Hot rolled	20,757	4,645	10,531	13,123	1,761	9,955	15,010	**633,345**	0.9
—Cold rolled	17,998	47,301	31,245	127,583	18,648	24,364	233,462	**920,352**	1.4
Total—All Grades	**2,334,670**	**1,617,839**	**1,363,364**	**4,531,715**	**244,496**	**543,784**	**6,344,217**	**67,583,527**	**100.0**
%	3.5	2.4	2.0	6.7	0.4	0.8	9.4	**100.0**	...

EXPORTS AND IMPORTS

The following tables, compiled from Department of Commerce report on Foreign Commerce and Navigation of the United States, give the tonnage of iron and steel products exported and imported during the period 1979-1983. Exports and imports of iron and steel products not stated by weight in the reports are necessarily omitted.

Table 17

Exports of Iron and Steel Products

(Net tons)

Products	1983[P]	1982	1981	1980	1979
Steel Mill Products:					
Ingots, blooms, billets, slabs, etc.	102,754	362,293	540,598	912,309	357,965
Wire rods	6,137	24,961	101,774	212,347	26,903
Structural shapes (3" & over)	47,019	56,398	131,379	151,077	139,062
Sheet piling	2,097	5,620	7,609	2,677	6,822
Plates	101,982	121,930	199,534	207,840	207,860
Rails—Standard	4,333	12,637	56,008	49,046	18,969
—Other	4,884	16,286	13,307	71,346	10,495
Rail joints and tie plates	9,297	7,563	9,011	9,620	8,686
Wheels and axles	1,557	2,706	7,336	4,517	2,496
Concrete reinforcing bars	34,524	114,739	137,318	166,168	86,281
Bars shapes under 3"	21,796	9,576	16,174	25,237	18,235
Bars—Hot rolled—Carbon	36,592	31,012	91,042	80,914	68,489
—Alloy	51,712	46,928	58,856	126,466	45,837
Cold finished bars	20,487	16,502	25,389	27,647	29,071
Tool steel	3,568	2,406	3,866	3,392	4,461
Hollow Drill Steel	1,373	1,445	4,818	4,244	7,870
Pipe—Line	24,551	48,003	47,822	41,294	86,606
Standard	50,068	73,100	118,636	118,163	154,550
Oil country goods	60,835	153,459	127,584	133,610	284,621
Tubing—Pressure	10,582	20,576	23,743	29,608	24,564
—Mechanical	41,485	34,273	44,263	42,241	57,220
—Structural	5,646	3,825	4,865	4,444	11,426
Other pipe and tubing	64,785	97,390	105,523	100,790	109,428
Wire—Coated or uncoated	7,810	7,128	9,643	9,451	10,674
—Carbon	10,929	15,735	25,162	27,101	21,335
—Barbed, Iron or Steel	1,601	3,399	2,549	6,091	2,813
—Nails and staples	6,919	7,091	11,948	11,596	10,320
Black plate	60,925	71,890	89,720	179,458	125,548
Tin plate	170,060	226,471	364,001	692,100	420,711
Terne plate & terne coated	18,571	13,656	17,089	14,924	19,694
Sheets—Hot rolled	42,543	62,188	195,292	211,291	100,525
—Cold rolled	39,990	38,352	75,768	129,341	115,652
Sheets & strip—Galv. & other coated	78,141	67,396	131,263	193,133	130,131
—Silicon alloy	10,674	13,229	17,707	18,563	30,798
Strip—Hot rolled	16,430	27,491	36,602	40,760	15,603
—Cold rolled	25,920	24,613	50,544	41,877	46,214
Total Steel Mill Products	**1,198,577**	**1,842,267**	**2,903,793**	**4,100,683**	**2,817,935**
Carbon	842,044	1,250,960	2,190,483	3,060,413	2,284,300
Alloy	307,097	538,717	628,432	907,906	447,925
Stainless	49,436	52,590	84,878	132,364	85,710

Table 17 *(continued)*

Exports of Iron and Steel Products

(Net tons)

Products	1983[p]	1982	1981	1980	1979
Other Steel Products:					
Plates—Fabricated	5,621	6,849	10,473	10,282	6,201
Structural shapes—Fabricated	65,801	119,300	172,392	175,038	121,296
Sashes and frames	9,198	10,136	12,803	12,471	10,237
Rails-used	34,026	52,796	56,777	85,592	70,224
Railway track material	3,214	6,606	4,461	4,502	4,770
Bolts, nuts	72,906	70,594	70,253	56,123	95,094
Architectural & ornamental work, nec.	3,642	5,574	10,188	10,405	4,157
Wire cable, rope, strand & cordage	10,329	13,733	20,511	17,222	14,292
Fabricated wire products	10,093	11,301	12,653	11,750	11,854
Wire springs	14,564	13,675	15,778	13,799	16,386
Welded wire mesh	5,102	7,890	7,143	14,691	6,870
Sheets—Fabricated	16,370	16,361	29,763	18,477	16,161
Cast steel rolls	977	3,205	5,073	4,263	3,432
Forgings	33,048	46,139	58,192	47,416	56,013
Chains and parts	6,380	11,918	11,865	11,405	10,072
Pipe & tube fittings	47,796	57,612	70,161	68,109	56,640
Total Other Steel Products	**339,067**	**453,689**	**568,486**	**561,545**	**503,699**
Total Steel Products	**1,537,644**	**2,295,956**	**3,472,279**	**4,662,228**	**3,321,634**
Iron Products and Ferroalloys:					
Cast iron pressure pipe	18,447	50,967	60,492	28,020	24,363
Cast iron soil pipe	40,819	37,962	6,587	20,234	9,790
Cast iron fittings not malleable	18,042	15,283	18,413	25,821	16,878
Cast iron fittings malleable	4,562	7,589	7,843	8,768	9,615
Iron castings	58,345	69,545	113,518	134,717	141,193
Pig iron	6,364	54,333	16,274	72,923	105,116
Sponge iron, iron or steel powders	14,243	13, 39	18,212	26,167	20,566
Ferroalloys	66,272	42,411	61,107	128,460	113,163
Total Iron Products & Ferroalloys	**227,094**	**292,029**	**302,446**	**445,110**	**440,684**
Grand Total	**1,764,738**	**2,587,985**	**3,774,725**	**5,107,338**	**3,762,318**
Iron and steel scrap	7,519,924	6,803,764	6,415,379	11,168,014	11,053,877

Table 18

Exports of Iron and Steel Products

(Net tons)

Products	1983[P]	1982	1981	1980	1979	1978	1977	1976	1975	1974
Steel Mill Products:										
Ingots, blooms, billets, slabs, etc	102,754	362,293	540,598	912,309	357,965	231,098	248,422	261,647	324,942	807,418
Wire rods	6,137	24,961	101,774	212,347	26,903	38,863	83,934	100,033	40,617	65,851
Structural shapes and piling	49,116	62,018	138,988	153,754	145,884	127,275	98,202	99,710	186,118	367,079
Plates	101,982	121,930	199,534	207,840	207,860	172,068	60,660	76,627	233,499	426,987
Rails and accessories	20,071	39,192	85,712	134,529	40,646	76,590	89,998	167,193	198,948	130,453
Bars and tool steel	170,052	222,608	337,463	434,068	260,244	282,309	229,991	282,587	264,021	753,747
Pipe and tubing	257,952	430,626	472,436	470,150	728,415	561,998	407,209	493,685	1,013,764	870,200
Wire and wire products	27,259	33,353	49,302	54,239	45,142	62,411	64,320	67,405	49,782	75,304
Tin mill products	249,556	312,017	470,810	886,482	565,953	453,463	374,500	412,989	271,721	577,983
Sheets and strip	213,698	233,269	507,176	634,965	438,923	415,613	345,865	692,130	369,712	1,757,626
Total Steel Mill Products	**1,198,577**	**1,842,267**	**2,903,793**	**4,100,683**	**2,817,935**	**2,421,688**	**2,003,101**	**2,654,006**	**2,953,124**	**5,833,148**
Other Steel Products	339,067	453,689	568,486	561,545	503,699	512,619	575,581	603,719	618,152	688,449
Total Steel Products	**1,537,644**	**2,295,956**	**3,472,279**	**4,662,228**	**3,321,634**	**2,934,307**	**2,578,682**	**3,257,725**	**3,571,276**	**6,521,597**
Iron Products and Ferroalloys	227,094	292,029	302,446	445,110	440,684	564,977	639,318	607,091	575,074	610,737
Grand Total	**1,764,738**	**2,587,985**	**3,774,725**	**5,107,338**	**3,762,318**	**3,499,284**	**3,218,000**	**3,864,816**	**4,146,350**	**7,132,334**

Table 19

Exports of Steel Mill Products

(Net tons)

Months	1983[P]	1982	1981	1980	1979	1978	1977	1976	1975	1974
January	94,513	173,403	255,736	197,768	192,619	160,338	162,280	150,444	288,760	454,844
February	92,122	153,543	212,903	295,675	164,693	207,583	204,787	177,031	257,148	448,208
March	88,940	197,296	260,094	276,266	216,844	191,463	201,535	211,534	282,109	502,733
April	105,754	147,572	291,048	321,393	226,446	204,708	232,818	228,524	269,788	533,431
May	100,931	194,314	259,418	337,821	236,756	255,466	178,011	264,744	268,019	626,899
June	100,182	180,094	279,433	417,941	255,187	270,996	151,195	231,947	255,744	632,630
July	108,250	145,546	217,564	398,417	233,706	174,335	135,753	318,432	263,851	646,764
August	100,123	152,434	194,438	448,915	249,507	208,456	142,849	280,176	270,695	488,249
September	99,000	158,258	228,080	400,518	244,488	174,305	170,806	193,296	202,239	345,801
October	109,868	133,356	233,084	366,179	281,453	217,741	125,386	183,082	228,181	386,800
November	114,210	105,988	244,423	315,875	226,700	194,487	148,396	186,043	184,907	296,421
December	84,459	97,370	227,490	323,827	289,312	248,453	149,161	228,276	181,659	470,236
Total*	**1,198,577**	**1,842,267**	**2,903,793**	**4,100,683**	**2,817,935**	**2,421,688**	**2,003,101**	**2,654,006**	**2,953,124**	**5,833,148**

*Totals include adjustments not shown in monthly figures

Table 20

Exports of Iron and Steel Products by Countries of Destination—1983

(Net Tons)

Products	Grand Total	Canada	LATIN AMERICA										
			Mexico	Guate-mala	Costa Rica	Dom. Rep.	Colom-bia	Vene-zuela	Ecua dor	Peru	Brazil	Argen-tina	Total Latin Am.
Steel Mill Products													
Ingots, blooms, billets, slabs, etc.	102,754	9,556	23,533	9,318	11,003	12,882	16	63	—	—	1	27	65,782
Wire rods	6,137	3,025	293	839	5	16	1	42	4	6	14	5	1,512
Structural shapes (3" & over)	47,019	29,573	2,041	1	37	33	663	79	175	323	36	421	5,808
Sheet piling	2,097	707	21	—	—	—	—	117	—	225	—	—	481
Plates	101,982	30,915	3,825	325	99	416	238	868	182	879	79	343	9,882
Rails—Standard	4,333	1,161	108	—	—	294	1,033	313	—	86	—	—	2,664
—Iron or steel (NEC)	4,884	1,449	1,415	—	5	6	8	296	—	392	783	5	3,048
Rails joints and tie plates	9,297	2,037	1,185	—	—	7	5,757	27	—	37	34	—	7,147
Wheels and axles	1,557	299	254	37	6	101	4	24	—	101	—	200	857
Concrete reinforcing bars	34,524	1,882	27	1,315	10	28	42	1	4,802	10	—	—	16,118
Bars shapes under 3"	21,796	7,359	222	163	7	109	105	216	6	78	—	—	2,049
Bars—Hot rolled—Carbon	36,592	24,524	3,878	58	9	16	246	235	6	125	2	—	5,015
—Alloy	51,712	43,744	2,787	18	6	159	233	114	4	46	14	166	4,105
Cold finished bars	20,487	10,548	2,334	7	26	46	172	98	3	197	6	4	4,795
Tool steel	3,568	1,340	118	—	2	3	684	30	—	4	189	—	1,306
Hollow drill steel	1,373	378	315	7	18	—	54	18	5	12	—	—	443
Pipe—Standard	50,068	6,472	7,586	48	37	80	2,625	97	2	2,007	27	41	15,594
—Line	24,551	6,688	3,241	—	3	16	652	3,017	78	660	186	1	10,284
Oil country goods	60,835	16,763	3,574	1	1	—	1,565	3,120	74	1,971	952	980	14,373
Tubing—Pressure	10,582	3,839	446	13	1	40	62	15	28	218	16	27	1,438
—Mechanical	41,485	32,744	5,260	—	4	37	25	—	26	15	10	25	5,563
—Structural	5,646	967	30	43	—	15	18	26	—	65	—	1	456
Other pipe and tubing	64,785	10,855	7,460	55	44	110	390	466	47	395	51	84	14,138
Wire—Coated or uncoated	7,810	2,714	1,190	31	89	43	22	95	51	2	58	12	2,275
—Carbon	10,929	3,809	2,351	14	62	60	192	75	51	47	144	10	3,417
—Barbed, iron or steel	1,601	87	57	2	—	1	11	—	—	14	—	—	364
—Nails and staples	6,919	2,504	171	149	31	136	214	9	22	13	4	1	1,695
Black plate	60,925	1,508	138	—	52	194	952	—	—	47	—	488	2,224
Tin plate	170,060	1,920	20,801	230	1,561	1,870	471	13	1,015	11	—	3,243	42,418
Terne plate & terne coated	18,571	18,182	110	—	—	—	131	—	—	—	—	—	246
Sheets—Hot rolled	42,543	29,074	4,542	112	28	89	125	885	33	199	14	11	7,884
—Cold rolled	39,990	19,799	2,289	4	16	117	6	232	22	13	33	321	3,505
Sheets and strip—Galv. and other coated	78,141	32,295	2,908	723	93	835	20	1,376	1	—	45	734	10,118
—Silicon alloy	10,674	666	4,690	—	—	—	66	810	—	—	55	140	5,766
Strip—Hot rolled	16,430	9,403	3,941	2	—	54	13	161	4	19	215	21	5,018
—Cold rolled	25,920	18,856	635	17	4	32	408	573	10	26	174	70	2,653
Total Steel Mill Products	1,198,577	387,642	113,776	13,532	13,259	17,845	17,224	13,511	6,651	8,243	3,142	7,381	280,451
Carbon	842,044	251,043	79,420	2,726	2,033	4,218	14,417	5,640	6,236	5,296	1,848	6,302	174,824
Alloy	307,097	114,841	32,342	10,640	11,189	13,493	2,380	7,001	371	2,695	1,060	725	98,230
Stainless	49,436	21,758	2,014	166	37	134	427	870	44	252	234	354	7,397

Country detail may not add to regional total because of omissions of some countries

Table 20 *(continued)*

Exports of Iron and Steel Products by Countries of Destination—1983

(Net Tons)

Products	Sweden	EUROPE								
		EUROPEAN ECONOMIC COMMUNITY								
		United Kingdom	Nether-lands	Belgium-Luxembourg	France	West Germany	Italy	Total E.E.C.*	Spain	Total Europe
Steel Mill Products										
Ingots, blooms, billets, slabs, etc.	5	168	56	24	65	60	11,060	11,624	17	11,665
Wire rods	108	36	42	122	97	49	10	356	1	492
Structural shapes (3" and over)	—	342	16	3	27	34	110	594	84	691
Sheet piling	—	—	221	15	—	—	—	236	—	236
Plates	11	4,398	43	508	86	4,717	8,490	18,277	75	19,915
Rails—Standard	—	31	—	—	—	—	—	42	—	42
—Iron or steel (NEC)	—	2	6	—	2	—	20	30	—	35
Rail joints and tie plates	—	6	2	1	—	—	—	10	5	15
Wheels and axles	2	7	2	58	13	—	2	82	1	86
Concrete reinforcing bars	—	35	—	—	—	—	—	35	—	730
Bar shapes under 3"	4	62	201	188	28	28	22	530	418	1,338
Bars—Hot rolled—Carbon	336	6	—	—	5	4	—	43	32	429
—Alloy	17	254	78	90	58	35	54	580	22	619
Cold finished bars	72	208	60	25	88	84	66	557	470	1,583
Tool steel	6	42	13	2	18	37	22	139	—	169
Hollow drill steel	72	—	—	—	16	10	—	33	32	183
Pipe—Standard	22	710	62	438	75	26	3	1,316	572	1,911
—Line	—	320	28	—	9	—	—	357	—	405
Oil country goods	21	1,757	1,287	—	16	399	70	3,543	451	5,995
Tubing—Pressure	2	244	57	12	3	126	200	672	186	944
—Mechanical	—	386	205	24	235	7	50	909	7	917
—Structural	—	4	2	—	—	1	—	29	2	142
Other pipe and tubing	658	452	409	17	175	391	45	1,522	147	2,626
Wire—Coated or uncoated	36	153	7	102	23	37	21	351	7	445
—Carbon	97	152	72	67	102	90	238	746	1,029	2,366
—Barbed, iron or steel	—	417	3	—	—	70	56	547	—	556
—Nails and staples	74	391	220	97	159	178	20	1,081	8	1,224
Black plate	3	498	—	1	6	41	39	585	—	588
Tin plate	—	2,239	25	3	26	60	22,660	25,023	—	26,796
Terne plate & terne coated	—	3	—	2	—	—	26	31	—	32
Sheets—Hot rolled	9	76	20	137	88	203	22	579	13	696
—Cold rolled	201	202	82	135	71	431	31	965	13	1,304
Sheets and strip—Galv. and other coated	32	2,084	40	37	257	137	915	3,506	15	3,996
—Silicon, alloy	1	12	—	—	18	115	4	376	4	390
Strip—Hot rolled	16	382	101	2	27	282	7	801	1	908
—Cold rolled	84	243	64	4	125	697	260	1,406	11	1,519
Total Steel Mill Products	**1,889**	**16,322**	**3,424**	**2,114**	**1,918**	**8,349**	**44,523**	**77,513**	**3,623**	**91,988**
Carbon	1,401	12,000	2,166	1,073	806	6,780	38,181	61,298	1,795	69,937
Alloy	310	3,752	1,067	829	660	748	6,179	13,809	1,568	18,919
Stainless	178	570	191	212	422	821	163	2,406	260	3,132

*Includes totals for Denmark, Ireland and Greece

Table 20 *(continued)*

Exports of Iron and Steel Products by Countries of Destination—1983

(Net Tons)

Products	ASIA								
	Israel	India	Pakistan	S. Arab	Philip-pines	Korea Rep.	Taiwan	Japan	Total Asia
Steel Mill Products									
Ingots, blooms, billets, slabs, etc.	5,774	—	—	32	10	9,463	207	22	15,684
Wire rods	106	—	3	46	6	32	84	317	734
Structural shapes (3" and over)	136	81	30	2,352	8	397	3,011	455	8,295
Sheet piling	—	—	—	—	—	—	—	79	79
Plates	524	164	931	3,403	788	6,867	5,167	131	39,588
Rails—Standard	—	2	—	—	—	—	155	47	211
—Iron or steel (NEC)	2	—	—	128	19	4	23	—	264
Rails joints and tie plates	—	—	—	19	—	2	9	—	35
Wheels and axles	14	—	—	3	1	75	1	6	112
—	—	—	—	157	—	1	1	12	1,890
Concrete reinforcing bars	8	600	27	773	9	17	84	30	9,371
Bar shapes under 3"	1,152	—	—	103	1	186	1	—	1,460
Bars—Hot rolled—Carbon	196	18	8	568	11	18	13	2,008	2,997
—Alloy	856	23	—	610	65	49	79	72	1,993
Cold finished bars	207	2	—	1	51	90	241	49	741
Tool steel	70	—	—	—	2	1	1	—	148
Hollow drill steel	—	—	—	—	—	—	—	—	—
Pipe—Standard	3	35	5	3,722	163	16,939	319	111	21,872
—Line	3	5	328	1,407	132	219	14	12	4,551
Oil country goods	118	82	48	8,430	8	118	160	388	15,182
Tubing—Pressure	—	—	1	1,554	27	736	596	16	3,196
—Mechanical	22	2	—	306	3	—	23	23	435
—Structural	—	—	4	390	19	75	—	2	548
Other pipe and tubing	188	76	66	25,782	43	1,891	884	128	31,286
Wire—Coated or uncoated	36	62	—	1,019	36	106	27	414	1,852
—Carbon	202	2	—	163	86	139	15	35	1,152
—Barbed, iron or steel	—	3	—	348	—	7	5	1	495
—Nails and staples	104	1	1	184	10	39	19	118	814
Black plate	358	8,901	25,469	—	1,128	3	6,128	1,499	56,139
Tin plate	—	6,538	11,327	1,071	9,132	4	16,158	54	80,748
Terne plate & terne coated	—	—	—	—	111	—	—	—	111
Sheets—Hot rolled	749	311	154	424	7	160	1,819	194	4,429
—Cold rolled	332	203	6,854	76	13	241	5,009	223	15,251
Sheets and strip—Galv. and other coated	395	1,333	16,716	5,354	394	302	1,548	84	29,015
—Silicon, alloy	2	1,252	13	—	—	2	2,478	77	3,851
Strip—Hot rolled	27	—	9	54	8	122	162	360	898
—Cold rolled	67	275	1	328	13	165	248	85	1,389
Total Steel Mill Products	**11,651**	**19,971**	**61,995**	**58,807**	**12,304**	**38,470**	**44,689**	**7,052**	**356,830**
Carbon	3,477	17,411	60,175	40,394	11,523	26,076	29,350	3,162	278,948
Alloy	7,279	1,741	375	15,991	690	11,503	12,565	3,109	62,138
Stainless	895	819	1,445	2,422	91	891	2,774	781	15,744

Table 20 *(continued)*

Exports of Iron and Steel Products by Countries of Destination—1983

(Net Tons)

Products	OCEANIA		AFRICA			
	Australia	Total Oceania	Nigeria	Liberia	So. Africa	Total Africa
Steel Mill Products						
Ingots, blooms, billets, slabs, etc	45	52	—	—	—	15
Wire rods	67	116	—	—	5	258
Structural shapes (3" and over)	58	61	266	—	70	2,591
Sheet piling	—	—	—	—	—	594
Plates	70	292	3	66	158	1,410
Rails—Standard	—	—	—	255	—	255
—Iron or steel (NEC)	—	—	—	58	—	88
Rail joints and tie plates	7	7	—	—	—	56
Wheels and axles	27	27	—	78	30	176
Concrete reinforcing bars	—	48	5,702	51	—	13,826
Bar shapes under 3"	1	16	—	3	34	1,663
Bars—Hot rolled—Carbon	32	49	—	—	2	5,115
—Alloy	63	74	—	27	3	173
Cold finished bars	40	124	—	—	177	1,444
Tool steel	8	11	—	—	1	1
Hollow drill steel	2	2	—	—	215	219
Pipe—Standard	138	198	7	83	110	2,244
—Line	72	379	114	6	1	2,444
Oil country goods	133	1,388	1,272	—	167	7,134
Tubing—Pressure	465	479	3	39	3	686
—Mechanical	1,579	1,579	—	—	230	247
—Structural	993	999	—	1	—	2,534
Other pipe and tubing	363	480	17	11	429	5,400
Wire—Coated or uncoated	23	78	9	24	18	446
—Carbon	31	45	58	3	2	140
—Barbed, iron or steel	13	18	—	7	53	81
—Nails and staples	217	327	2	6	331	355
Black plate	170	170	94	—	—	296
Tin plate	36	36	1,903	—	298	18,142
Terne plate & terne coated	—	—	—	—	—	—
Sheets—Hot rolled	59	101	2	—	26	359
—Cold rolled	51	59	10	44	—	62
Sheets and strip—Galv. and other coated	90	246	1	—	7	2,467
—Silicon, alloy	1	1	—	—	—	—
Strip—Hot rolled	34	34	—	1	166	169
—Cold rolled	77	88	—	—	8	1,415
Total Steel Mill Products	**4,965**	**7,584**	**9,463**	**763**	**2,544**	**74,082**
Carbon	2,471	4,037	8,724	610	1,568	63,255
Alloy	2,133	3,139	734	103	834	9,830
Stainless	361	408	5	50	142	997

Table 20A

Exports of Iron and Steel Products by Countries of Destination 1983

(Net Tons)

Products	Grand Total	Canada	LATIN AMERICA										
			Mexico	Guate-mala	Costa Rica	Dom. Rep.	Colom-bia	Vene-zuela	Ecua-dor	Peru	Brazil	Argen-tina	Total Latin Am.
Other Steel Products													
Plates—Fabricated	5,621	2,355	41	25	3	41	76	26	1	1	—	2	636
Structural shapes—Fabricated	65,801	6,693	5,521	88	203	779	238	1,232	524	202	59	13	23,194
Sashes and frames	9,198	1,847	75	—	—	7	9	5	2	15	—	35	864
Rails—Used	34,026	450	28,412	—	—	—	—	—	—	—	—	—	28,529
Railway track material	3,214	790	122	—	18	72	872	126	—	70	—	—	1,371
Bolts, nuts	72,906	61,946	1,782	66	253	124	89	201	42	58	12	3	4,546
Agricultural and ornamental work, NEC	3,642	163	4	—	—	—	31	15	—	—	1	—	625
Wire strand, rope, cables & cordage	10,329	1,917	478	13	14	56	132	258	27	83	273	133	2,383
Fabricated wire products	10,093	4,785	1,337	359	20	147	39	63	25	9	2	7	2,330
Wire springs	14,564	12,814	917	1	—	2	39	7	19	19	4	19	1,076
Welded wire mesh	5,102	1,257	374	4	1	8	17	9	2	7	1	—	1,548
Sheets—Fabricated	16,370	2,263	109	102	456	10	9	38	14	2	—	—	1,594
Cast steel rolls	977	620	46	—	—	—	—	131	—	—	—	—	177
Forgings	33,048	15,256	179	—	—	1,398	1	14	—	12	67	27	3,936
Chains and parts	6,380	3,343	191	40	5	26	49	49	34	50	11	9	1,137
Pipe and tube fittings	47,796	9,909	1,922	23	21	78	169	298	83	35	8	11	7,347
Total Other Steel Products	339,067	126,408	41,510	721	994	2,748	1,770	2,472	773	563	438	259	80,795
Total Steel Products	1,537,644	514,050	155,286	14,253	14,253	20,593	18,994	15,983	7,424	8,806	3,580	7,640	361,246
Iron Products And Ferroalloys													
Cast iron pressure pipe	18,447	1,703	424	5	—	—	270	7	—	10	—	1	1,318
Cast iron soil pipe	40,819	344	15	10	—	—	—	218	—	—	—	—	7,468
Cast iron fittings not malleable	18,042	1,836	1,284	10	4	35	79	628	11	2	1	10	3,245
Cast iron fittings malleable	4,562	1,797	463	24	4	9	51	19	18	2	6	2	778
Iron castings	58,345	56,721	384	—	—	—	29	—	—	3	—	1	833
Pig iron	6,364	2,350	49	—	63	—	142	2	—	—	—	—	318
Sponge iron, iron or steel powders	14,243	7,711	1,259	—	—	—	58	221	—	178	2,124	1,092	4,977
Ferroalloys	66,272	23,313	816	—	—	17	29	548	—	77	153	158	5,121
Total Iron Products and Ferroalloys	227,094	95,775	4,694	49	71	61	658	1,643	29	272	2,284	1,264	23,550
Grand Total	1,764,738	609,825	159,980	14,302	14,324	20,654	19,652	17,626	7,453	9,078	5,864	8,904	385,096
Iron and steel scrap	7,519,924	539,157	418,951	1,835	16	87	13,922	20,093	7	34,812	36	40	518,322

Country detail may not add to regional total because of omissions of some countries.

Table 20A *(continued)*

Exports of Iron and Steel Products by Countries of Destination—1983

(Net Tons)

Products	EUROPE									
	EUROPEAN ECONOMIC COMMUNITY									
	Sweden	United Kingdom	Nether-lands	Belgium-Luxembourg	France	West Germany	Italy	Total E.E.C.*	Spain	Total Europe
Other Steel Products										
Plates—Fabricated	—	16	2	—	1	23	—	42	386	431
Structural shapes—Fabricated	126	881	606	87	161	144	57	1,973	56	2,485
Sashes and frames	14	210	96	5	77	22	1	463	—	522
Rails—Used	—	—	—	—	—	17	—	17	—	41
Railway track material	—	8	—	—	—	—	—	8	—	241
Bolts, nuts	41	596	62	79	149	239	97	1,319	23	1,481
Architectural and ornamental work, NEC	1	22	251	1	—	—	13	297	26	327
Wire strand, rope, cables and cordage	4	165	18	53	56	76	8	384	24	518
Fabricated wire products	103	285	67	162	157	161	32	897	33	1,103
Wire springs	10	111	17	45	2	20	12	210	66	319
Welded wire mesh	3	3	—	22	1	—	27	53	—	61
Sheets—Fabricated	8	143	1	—	34	152	—	330	—	343
Cast steel rolls	—	74	—	31	—	71	—	176	—	176
Forgings	26	245	715	5	260	72	43	1,522	4	1,609
Chains and parts	12	151	303	48	27	21	40	623	35	794
Pipe and tube fittings	10	233	73	8	120	112	72	1,771	52	2,397
Total Other Steel Products	**358**	**3,143**	**2,211**	**546**	**1,045**	**1,130**	**402**	**10,085**	**705**	**12,848**
Total Steel Products	**2,247**	**19,465**	**5,635**	**2,660**	**2,963**	**9,479**	**44,925**	**87,598**	**4,328**	**104,836**
Iron Products and Ferroalloys										
Cast iron pressure pipe	1	16	126	—	6	50	—	202	69	275
Cast iron soil pipe	—	3	—	—	14	—	—	17	—	153
Cast iron fittings not malleable	5	177	158	11	4	7	6	369	17	440
Cast iron fittings malleable	1	20	8	5	1	4	12	50	10	155
Iron castings	—	482	12	77	43	50	55	731	—	770
Pig iron	—	—	—	—	—	—	—	—	—	—
Sponge iron, iron or steel powders	448	145	196	63	51	38	3	961	—	1,041
Ferroalloys	181	328	7,149	15,496	109	1,005	454	24,584	56	25,018
Total Iron Products and Ferroalloys	**636**	**1,171**	**7,649**	**15,652**	**228**	**1,154**	**530**	**26,514**	**152**	**27,852**
Grand Total	**2,883**	**20,636**	**13,284**	**18,312**	**3,191**	**10,633**	**45,455**	**114,112**	**4,480**	**132,688**
Iron and steel scrap	2,251	1,303	2,224	6,360	274	3,047	25,350	190,141	355,701	1,248,997

*Includes totals for Denmark, Ireland and Greece

Table 20A *(continued)*

Exports of Iron and Steel Products by Countries of Destination—1983

(Net Tons)

Products	ASIA								
	Israel	India	Pakistan	S. Arab	Philip-pines	Korea Rep.	Taiwan	Japan	Total Asia
Other Steel Products									
Plates—Fabricated	2	2	—	1,115	1	48	4	108	**2,038**
Structural shapes—Fabricated	235	32	67	17,240	1,181	875	331	461	**27,487**
Sashes and frames	49	15	42	4,233	81	214	18	133	**5,496**
Rails—Used	—	—	—	—	—	4,928	59	15	**5,002**
Railway track material	22	—	—	356	118	1	3	—	**506**
Bolts, nuts	57	8	2	3,966	68	234	104	190	**5,362**
Architectural and ornamental work, NEC	—	2	2	1,487	—	115	2	171	**2,040**
Wire strand, rope, cables & cordage	24	45	4	599	56	3,026	188	66	**4,808**
Fabricated wire products	83	12	2	553	30	67	92	70	**1,268**
Wire springs	7	2	1	214	—	6	2	3	**292**
Welded wire mesh	—	—	1	1,265	33	39	64	1	**1,701**
Sheets—Fabricated	1,106	8	16	4,232	64	715	4,270	203	**11,699**
Cast iron steel rolls	—	—	—	—	—	—	—	3	**4**
Forgings	39	1	—	72	7	20	23	142	**1,012**
Chains and parts	62	22	—	95	19	45	29	223	**695**
Pipe and tube fittings	37	7	102	14,891	324	1,039	695	386	**24,932**
Total Other Steel Products	**1,723**	**156**	**239**	**50,318**	**1,982**	**11,372**	**5,884**	**2,175**	**94,342**
Grand Total	**13,374**	**20,127**	**62,234**	**109,125**	**14,286**	**49,842**	**50,573**	**9,227**	**451,172**
Iron Products and Ferroalloys									
Cast iron pressure pipe	—	7	13	4,775	3	612	203	43	**8,783**
Cast iron soil pipe	—	—	—	7,905	2	111	—	99	**26,545**
Cast iron fittings not malleable	8	3	6	7,970	91	412	142	99	**11,654**
Cast iron fittings malleable	56	3	1	942	10	210	15	120	**1,699**
Iron castings	3	28	—	12	18	1	1	24	**103**
Pig iron	13	—	—	3,328	—	224	—	—	**3,610**
Sponge iron, iron or steel powders	40	2	—	29	65	1	12	201	**420**
Ferroalloys	21	706	—	55	12	154	153	8,341	**9,543**
Total Iron Products and Ferroalloys	**141**	**749**	**20**	**25,016**	**201**	**1,725**	**526**	**8,927**	**62,357**
Grand Total	**13,515**	**20,876**	**62,254**	**134,141**	**14,487**	**51,567**	**51,099**	**18,154**	**513,529**
Iron and Stel Scrap	331	277,970	160,009	215	46	1,476,374	499,475	2,595,634	**5,213,176**

Table 20A *(continued)*

Exports of Iron and Steel Products by Countries of Destination—1983

(Net Tons)

Products	OCEANIA		AFRICA			
	Australia	Total Oceania	Nigeria	Liberia	So. Africa	Total Africa
Other Steel Products						
Plates—Fabricated	13	28	6	—	1	131
Structural shapes—Fabricated	181	297	18	9	232	5,645
Sashes and frames	40	56	27	—	2	413
Rails—Used	—	—	—	—	—	4
Railway track material	15	17	—	289	—	289
Bolts, nuts	115	153	18	40	87	418
Architectural and ornamental work, NEC	3	6	262	—	—	481
Wire strand, rope, cables & cordage	48	111	28	12	63	592
Fabricated wire products	27	45	45	7	157	362
Wire springs	46	47	—	—	9	16
Welded wire mesh	1	29	—	14	4	206
Sheets—Fabricated	46	120	4	—	40	351
Cast steel rolls	—	—	—	—	—	—
Forgings	26	11,191	1	—	39	41
Chains and parts	126	148	30	—	66	263
Pipe and tube fittings	696	1,283	101	39	105	1,932
Total Other Steel Products	1,383	13,531	540	410	805	11,147
Total Steel Products	6,348	21,115	10,003	1,173	3,349	85,229
Iron Products and Ferroalloys						
Cast iron pressure pipe	37	101	—	23	81	6,267
Cast iron soil pipe	—	2	—	—	198	6,307
Cast iron fittings not malleable	31	87	60	52	8	780
Cast iron fittings malleable	58	67	—	—	—	66
Iron castings	23	36	—	51	—	82
Pig iron	—	94	—	—	—	—
Sponge iron, iron or steel powders	58	81	—	—	—	13
Ferroalloys	3,041	3,050	—	—	52	227
Total Iron Products and Ferroalloys	3,248	3,518	60	126	339	13,742
Grand Total	9,596	24,633	10,063	1,299	3,688	98,971
Iron and steel scrap	30	53	—	165	54	219

Table 21

Imports of Iron and Steel Products

(Net tons)

Products	1983[P]	1982	1981	1980	1979
Steel Mill Products:					
Ingots, blooms, slabs, and billets, etc.	822,483	716,588	790,062	155,343	344,693
Wire rods	1,185,291	941,390	888,442	829,259	985,414
Structural shapes (plain 3" and over)	1,444,721	1,483,481	1,976,796	1,739,543	1,881,967
Steel piling	113,554	114,859	98,712	89,423	102,815
Plates	1,103,199	1,619,527	2,447,688	2,059,713	1,819,812
Rails and track accessories	152,853	320,341	282,868	271,172	213,676
Wheels and axles	6,500	19,931	35,701	142,904	99,547
Concrete reinforcing bars	208,303	51,676	52,645	78,639	116,955
Bar shapes under 3"	88,288	59,707	105,417	136,947	231,614
Bars—Hot rolled	457,094	463,362	596,014	497,621	608,344
—Cold finished	191,605	218,306	232,005	146,782	170,501
Tool Steel	30,423	†	†	†	†
Standard pipe	971,410	705,517			
Oil country goods	564,769	2,179,862			
Line pipe	494,424	1,122,408	(INCL. IN OTHER		
Mechanical tubing	40,124	49,424	PIPE & TUBE)		
Pressure tubing	48,459	48,594			
Stainless pipe & tubing	19,159	—			
Structural pipe & tubing	186,621	—			
Other pipe and tubing	537,095	1,144,143	6,568,556	3,776,535	2,920,019
Wire Drawn	458,632	334,201	385,020	395,053	460,668
Bale ties & baling wire	448	129	83	437	85
Galvanized wire fencing	10,142	8,448	8,452	8,314	11,261
Wire nails	374,038	264,365	303,478	292,133	336,814
Barbed wire	28,927	18,162	26,942	18,937	18,429
Black plate	170,420	119,507	97,842	68,245	82,070
Tin plate	290,535	216,243	286,271	308,353	259,538
Tin free steel	62,170		(Incl. Sheets—Other—Elec. CTD)		
Terne plate	††	2,153	2,142	944	3,243
Sheets—Hot rolled	2,316,786	1,355,027	1,628,144	1,491,786	2,161,757
—Cold rolled	2,417,195	1,706,699	1,626,000	1,477,134	2,412,987
—Coated (incl. Galvanized)	1,824,163	1,227,693	1,303,586	1,349,770	2,139,148
—Coated alloy	—	182	9	23	3
All other metalic coated	286,295	—	—	—	—
Electric sheets & Strip	46,595		(Incl. in Sheets Hot Rolled—Strip Cold Rolled)		
Strip—Hot rolled	32,531	21,653	24,939	15,806	27,349
—Cold rolled	84,644	49,207	50,870	46,972	49,582
—Hot and cold rolled—Alloy	—	22,361	23,091	15,328	21,253
Sheets—Other—Electric coated	—	57,388	56,565	81,854	38,591
Total Steel Mill Products	**17,069,895**	**16,662,532**	**19,898,340**	**15,494,970**	**17,518,135**
Carbon	16,343,643	15,376,328	18,615,633	14,783,625	16,620,845
Alloy	535,928	1,083,683	1,091,514	558,671	728,188
Stainless	190,324	202,521	191,193	152,674	169,102

†Included in individual product breakout.
††Included in all other metalic coated.

Table 21 *(continued)*

Imports of Iron and Steel Products

(Net tons)

Products	1983[p]	1982	1981	1980	1979
Other Steel Products:					
Structural shapes, fabricated	203,312	144,959	167,567	174,422	180,412
Shapes—Cold formed	1,552	615	485	368	534
Sashes and frames	1,432	997	703	501	213
Fence or sign posts	5,909	2,805	1,162	2,154	2,131
Wire—Nonmetallic covered	747	528	1,006	331	632
Wire rope	106,594	108,593	121,414	93,622	114,266
Wire strand	163,228	172,803	148,541	157,396	171,573
Welded wire fabric	17,755	19,933	13,730	19,027	23,203
Other nails and staples	38,117	23,530	26,243	24,684	30,784
Bale ties, made from strip	643	1,196	1,389	2,050	8,046
Bolts, nuts and rivets	443,142	421,661	445,312	429,679	499,578
Grinding balls	4,990	8,699	14,347	16,147	26,578
Blanks, nonrectangular flat rolled	5,536	4,016	4,830	6,011	6,753
Rigid conduit	3,169	1,656	1,920	2,053	3,094
Pipe and tube fittings	72,657	113,186	132,066	88,264	81,714
Total Other Steel Products	**1,068,782**	**1,025,177**	**1,080,715**	**1,016,709**	**1,149,511**
Total Steel Products	**18,138,677**	**17,687,709**	**20,979,055**	**16,511,679**	**18,667,646**
Iron Products and Ferroalloys:					
Bar iron, iron slabs and blooms, etc.	150	73	177	1,144	65
Cast iron soil pipe and fittings	439	514	1,040	742	807
Other cast iron pipe and fittings	9,541	8,745	7,841	5,842	8,701
Malleable cast iron pipe fittings	19,153	18,718	16,360	17,275	17,324
Castings and forgings	106,874	108,163	122,978	117,655	135,056
Pig iron	242,142	321,699	433,017	400,035	476,384
Sponge iron	135,321	50,471	75,710	65,793	104,154
Ferromanganese (manganese content)	266,327	379,167	516,651	473,399	638,724
Ferrosilicon (silicon content)	106,666	53,130	110,742	46,967	74,464
Ferrochromium (chromium content)	162,998	84,777	244,314	162,443	113,521
Other ferroalloys	113,096	56,836	121,495	75,046	89,708
Total Iron Products and Ferroalloys	**1,162,707**	**1,082,293**	**1,650,325**	**1,366,341**	**1,658,908**
Grand Total	**19,301,384**	**18,770,002**	**22,629,380**	**17,878,020**	**20,326,554**
Iron and Steel Scrap	640,770	474,190	561,766	558,142	760,278

Table 22

Imports of Iron and Steel Products

(Net tons)

Products	1983[P]	1982	1981	1980	1979	1978	1977	1976	1975	1974
Steel Mill Products:										
Ingots, blooms, billets, slabs, etc.	822,483	716,588	790,062	155,343	344,693	413,899	297,711	240,110	242,836	182,857
Wire rods	1,185,291	941,390	888,442	829,259	985,414	1,326,580	1,341,575	1,120,744	1,112,772	1,950,624
Structural shapes and piling	1,558,275	1,598,340	2,075,508	1,828,966	1,984,782	1,926,967	1,817,187	1,424,451	876,161	1,234,489
Plates	1,103,199	1,619,527	2,447,688	2,059,713	1,819,812	2,924,989	2,116,459	1,596,429	1,403,265	1,622,952
Rails and accessories	159,353	340,272	318,569	414,076	313,223	285,885	207,191	113,667	175,418	117,482
Bars and tool steel	975,713	793,051	986,081	859,989	1,127,414	1,337,014	1,363,907	935,790	923,705	1,869,093
Pipe and tubing	2,862,061	5,249,948	6,568,556	3,776,535	2,920,019	3,045,910	2,473,740	2,005,152	1,684,766	1,894,524
Wire and wire products	872,187	625,303	723,975	714,874	827,257	1,074,781	977,234	815,359	647,087	1,047,942
Tin mill products	523,125	337,903	386,255	377,542	344,851	426,566	465,134	324,470	414,860	327,321
Sheets and strip	7,008,209	4,440,210	4,713,204	4,478,673	6,850,670	8,371,991	8,246,474	5,708,433	4,531,572	5,722,754
Total Steel Mill Products	**17,069,895**	**16,662,532**	**19,898,340**	**15,494,970**	**17,518,135**	**21,134,582**	**19,306,612**	**14,284,605**	**12,012,442**	**15,970,038**
Other Steel Products	1,068,782	1,025,177	1,080,715	1,016,709	1,149,511	1,129,578	985,233	651,939	656,963	846,037
Total Steel Products	**18,138,677**	**17,687,709**	**20,979,055**	**16,511,679**	**18,667,646**	**22,264,160**	**20,291,845**	**14,936,544**	**12,669,405**	**16,816,075**
Iron Products and Ferroalloys	1,162,707	1,082,293	1,650,325	1,366,341	1,658,908	1,804,126	1,366,278	1,357,184	1,249,840	1,146,599
Grand Total	**19,301,384**	**18,770,002**	**22,629,380**	**17,878,020**	**20,326,554**	**24,068,286**	**21,658,123**	**16,293,728**	**13,919,245**	**17,962,674**

Table 23

Imports of Steel Mill Products

(Net tons)

Months	1983[P]	1982	1981	1980	1979	1978	1977	1976	1975	1974
January	1,097,621	1,968,663	1,261,332	1,265,093	1,264,346	1,537,793	1,121,267	1,006,896	1,801,358	827,241
February	1,156,903	1,600,300	1,234,087	1,666,905	1,329,115	2,219,592	1,002,459	966,145	1,192,004	829,881
March	1,113,127	1,355,969	1,141,878	1,119,981	1,095,893	1,988,233	1,175,410	1,033,899	1,153,380	891,779
April	1,182,177	1,029,288	1,760,883	1,249,874	1,071,955	2,174,892	1,114,786	948,334	959,036	971,269
May	1,352,954	1,695,850	1,772,326	1,614,653	1,654,757	1,511,255	1,817,390	1,071,425	856,158	1,142,356
June	1,296,840	1,783,632	1,665,347	1,202,689	1,365,619	1,359,820	1,818,620	1,354,854	927,035	1,292,316
July	1,410,816	1,113,031	1,663,042	1,079,040	1,514,423	1,784,814	1,582,037	1,190,080	804,651	1,292,589
August	1,617,273	1,450,515	2,226,364	1,374,121	1,783,935	1,870,390	1,831,115	1,201,166	748,176	1,607,333
September	1,521,966	1,190,779	1,747,583	1,063,755	1,640,695	1,584,169	2,057,413	1,282,664	697,209	1,259,530
October	1,755,164	1,145,847	1,871,511	1,141,939	1,603,188	1,715,239	1,761,726	1,267,934	817,768	2,021,301
November	1,835,197	1,258,423	1,921,117	1,179,301	1,651,951	2,016,345	1,937,947	1,596,834	902,900	1,925,109
December	1,729,858	1,090,494	1,612,870	1,533,920	1,542,258	1,372,040	2,086,549	1,364,403	1,152,767	1,909,334
Total*	**17,069,895**	**16,662,532**	**19,898,340**	**15,494,970**	**17,518,135**	**21,134,582**	**19,306,612**	**14,284,605**	**12,012,442**	**15,970,038**

*Revised totals include adjustments not shown in monthly figures.

Table 24

Imports of Iron and Steel Products by Countries of Origin—1983

(Net tons)

Products	Grand Total	Latin America					
		Canada	Mexico	Vene-zuela	Brazil	Argen-tina	Total Latin America
Steel Mill Products							
Ingots, blooms, billets, slabs, etc.	822,483	438,330	1,170	—	41,340	—	42,510
Wire rods	1,185,291	290,455	106,962	—	78,081	68,335	317,338
Structural shapes-plain 3" & over	1,444,721	186,614	62,268	—	15,814	411	78,493
Steel piling	113,554	9,855	10	—	—	—	10
Plates	1,103,199	240,565	25,525	31	190,478	550	216,585
Rails standard	89,656	10,020	—	—	—	—	—
Rails other	17,815	5,470	18	—	—	—	18
Joint bars and tie plates	44,259	1,098	—	—	—	—	—
Track spikes	1,123	51	—	—	—	—	—
Wheels and axles	6,500	761	4	1	1,853	—	1,858
Bars—hot rolled	457,094	178,815	10,004	—	34,009	11,224	57,187
Bars shapes under 3 inches	88,288	23,493	11,122	—	2,775	699	14,635
Concrete reinforcing bars	208,303	4,465	70,692	15,861	47,039	202	133,795
Bars—cold finished	191,605	22,993	752	—	10,157	2,713	13,622
Tool steel	30,423	816	60	—	1,344	130	1,534
Standard pipe	971,410	51,969	95,365	4,087	45,779	10,138	155,369
Oil country goods	564,769	24,153	10,328	819	9,427	14,236	34,810
Line pipe	494,424	5,235	53,538	12,536	82,015	9,486	157,575
Mechanical tubing	40,124	4,893	15	—	800	—	815
Pressure tubing	48,459	473	1,242	124	3,042	—	4,409
Stainless pipe & tubing	19,159	558	47	—	7	—	54
Pipe & tubing nonclassified	537,095	64,763	12,293	9,131	25,521	2,926	49,870
Structural pipe & tube, square & rectangular	186,621	71,154	1,150	—	—	181	1,331
Wire drawn	458,632	133,232	378	18	10,681	507	11,585
Wire nails	374,038	76,620	4,368	—	617	7,832	13,233
Barbed wire	28,927	410	4,976	—	4,883	3,771	13,631
Galvanized wire fencing	10,142	3,510	4,335	—	19	—	4,354
Bale ties & baling wire	448	39	51	—	—	—	51
Black plate	170,420	4,443	—	—	—	—	—
Tin plate	290,535	34,163	—	—	19	—	19
Tin free steel	62,170	415	—	135	10	—	145
Sheets—hot rolled	2,316,786	189,805	54,731	66,106	280,526	11,728	413,118
Sheets—cold rolled	2,417,195	71,721	40,334	41,047	343,410	130,239	555,207
Sheets—galvanized	1,824,163	186,056	62,573	7,258	24,207	4,567	98,605
All other metallic coated	286,295	1,600	13,450	—	1,489	—	14,941
Electric sheets & strip	46,595	10,520	—	—	279	—	279
Strip—hot rolled	32,531	6,437	2,285	348	1,109	2,379	6,121
Strip—cold rolled	84,644	22,648	962	183	275	—	1,420
Total steel mill products	**17,069,895**	**2,378,617**	**651,009**	**157,684**	**1,257,008**	**282,253**	**2,414,527**
Carbon	16,343,643	2,251,745	645,131	157,684	1,228,530	277,931	2,375,852
Alloy	535,928	119,105	5,306	—	25,056	4,322	34,684
Stainless	190,324	7,766	572	—	3,420	—	3,992

Country total may not add to regional total because of omissions of some countries.

Table 24 *(continued)*

Imports of Iron and Steel Products by Countries of Origin—1983

(Net tons)

	Europe													
	European Economic Community													
	United Kingdom	Nether-lands	Belgium-Luxembourg	France	Fed Rep Germany	Italy	Greece	Total E.E.C.*	Sweden	Finland	Austria	Poland	Spain	Total Europe
Ingots, blooms, billets, slabs, etc.	10,484	41,061	674	24,020	131,502	611	—	208,353	58,334	—	—	—	34,074	300,761
Wire rods	22,764	6,628	9,729	80,750	20,498	9,480	—	149,848	29,340	—	420	25,843	85,795	311,470
Structural shapes-plain 3" & over	110,637	3,861	188,079	49,575	69,280	411	—	421,842	781	—	292	9,537	123,704	556,272
Steel piling	16,397	—	28,768	16,798	18,159	—	—	90,121	—	—	—	—	920	81,041
Plates	31,470	12,224	129,937	18,492	59,726	21,014	—	272,863	40,964	89,623	1,415	8,713	49,624	470,065
Rails standard	3,520	—	633	12,153	26,572	—	—	42,879	—	—	22	—	—	42,901
Rails other	6	—	2,404	1,163	89	—	—	3,662	3	—	166	—	65	3,896
Joint bars and tie plates	70	—	28	—	43	—	—	142	—	—	—	—	—	142
Track spikes	—	—	—	—	68	—	—	68	—	—	—	—	—	68
Wheels and axles	282	—	—	178	252	347	—	1,059	131	—	90	—	1	1,282
Bars—hot rolled	62,049	109	11,059	1,940	14,619	622	—	90,398	8,954	—	1,059	476	24,383	125,336
Bars shapes under 3 inches	887	426	11,853	510	3,621	247	—	17,544	10	—	5	—	—	17,560
Concrete reinforcing bars	17	—	—	—	1,877	—	—	1,894	—	—	4	—	—	1,898
Bars—cold finished	14,828	16	579	24,185	7,001	3,522	—	50,143	1,223	762	75	—	17,881	70,105
Tool steel	1,222	—	86	1,115	5,893	2,209	—	10,525	7,984	18	4,036	295	42	22,900
Standard pipe	3,332	19,648	22,717	5,292	14,010	4,749	—	69,782	118	3	—	2,239	16,144	92,905
Oil country goods	2,897	1	6,146	17,878	37,727	129,429	10,662	204,742	6,828	—	2,488	—	20,155	234,901
Line pipe	12,423	1,298	875	30,172	32,576	3,085	—	80,429	2,278	524	—	—	1,152	84,391
Mechanical tubing	4,426	9	—	2,667	6,120	338	—	13,561	3,427	—	2	310	1,249	18,562
Pressure tubing	1,553	95	105	1,917	4,746	962	—	9,377	—	—	24	391	2,468	12,844
Stainless pipe & tubing	592	1	20	1,634	1,823	1,234	—	5,303	4,731	—	622	—	393	11,058
Pipe & tubing nonclassified	3,932	103	1,288	18,827	35,866	22,322	6,951	89,319	493	—	1,154	2,903	15,005	109,777
Structural pipe & tube, sq. & rect.	175	4	1	1,291	711	—	—	2,182	—	—	42	—	2,793	5,081
Wire drawn	14,831	813	58,671	43,785	22,787	4,636	—	145,524	8,224	1,936	734	480	511	158,975
Wire nails	1,070	666	1,301	173	295	204	—	5,067	2	2	466	21,329	17,494	60,785
Barbed wire	59	39	4,210	—	78	—	—	4,386	—	—	—	4,653	99	9,138
Galvanized wire fencing	12	2	1,743	—	157	20	—	1,933	—	—	—	—	—	1,933
Bale ties & baling wire	157	—	2	—	29	—	—	188	—	—	—	—	130	318
Black plate	—	3,806	7,174	3,933	4,499	—	12,379	31,791	—	—	—	—	—	31,791
Tin plate	2,052	7,476	1,979	30,052	38,461	—	—	80,020	—	—	—	—	9	80,198
Tin free steel	236	—	—	6,900	17,962	—	—	25,098	—	—	—	—	—	25,098
Sheets—hot rolled	9,484	158,249	51,137	300,696	285,221	84,577	—	889,365	23,174	73,154	8,409	52	46,338	1,040,513
Sheets—cold rolled	21,257	112,279	58,603	156,165	312,664	68,599	37,681	767,247	11,039	23,952	13,473	—	80,125	838,054
Sheets galvanized	5,104	1,708	8,984	51,467	154,058	19,656	—	240,977	60	56	390	21	63,037	312,920
All other metallic coated	2,601	40	2,840	6,879	26,128	8,454	—	46,943	2	—	—	—	5,681	52,703
Electric sheets & strip	25	—	573	4	7,641	8,453	—	16,697	1,928	—	—	—	—	18,625
Strip—hot rolled	234	38	1,974	—	3,999	22	—	6,267	113	—	—	—	57	6,442
Strip—cold rolled	2,664	82	836	3,131	19,898	151	—	26,762	3,672	6,264	32	—	325	37,059
Total steel mill products	**363,750**	**370,681**	**615,008**	**913,743**	**1,386,655**	**395,356**	**67,673**	**4,114,298**	**213,811**	**196,294**	**35,418**	**77,242**	**609,653**	**5,309,764**
Carbon	333,010	368,187	605,529	833,126	1,310,781	357,611	67,673	3,877,338	154,323	193,235	25,650	76,947	572,681	4,962,923
Alloy	24,182	2,451	5,675	47,847	66,069	28,175	—	174,399	42,682	761	8,982	295	11,792	239,169
Stainless	6,558	43	3,805	32,770	9,805	9,570	—	62,561	16,806	2,298	787	—	25,180	107,672

*Includes totals for Ireland & Denmark.

Table 24 *(continued)*

Imports of Iron and Steel Products by Countries or Origin—1983

(Net tons)

	Asia					Australia & Oceania		Africa	
	People's Republic of China	Korea Republic	China Taiwan	Japan	Total Asia	Australia	Australia & Oceania	Republic of South Africa	Total Africa
Steel Mill Products:									
Ingots, blooms, billets, slabs, etc	—	—	—	1,246	1,246	6	6	39,630	39,630
Wire rods	—	1,638	560	227,835	232,829	23,444	23,444	9,754	9,754
Structural shapes-plain 3" & over	—	71,277	1,931	445,823	519,032	477	477	103,833	103,833
Steel piling	—	7,031	—	11,401	18,432	—	—	4,216	4,216
Plates	—	100,324	23	28,179	128,539	11,244	11,244	36,201	36,201
Rails standard	—	272	—	36,464	36,735	—	—	—	—
Rails other	—	696	5	7,731	8,431	—	—	—	—
Joint bars and tie plates	—	—	—	43,019	43,019	—	—	—	—
Track spikes	184	44	25	751	1,005	—	—	—	—
Wheels and axles	—	67	28	2,498	2,593	—	—	5	5
Bars—hot rolled	1,645	5,451	1,029	80,292	95,601	76	76	79	79
Bars shapes under 3 inches	—	5,409	11,934	11,584	28,991	71	71	3,537	3,537
Concrete reinforcing bars	—	47,777	4,071	5,603	57,452	—	—	10,694	10,694
Bars—cold finished	148	5,485	446	75,693	81,882	20	20	2,984	2,984
Tool steel	185	641	—	4,348	5,173	—	—	—	—
Standard pipe	—	445,732	132,204	65,633	644,827	7,333	7,360	18,981	18,981
Oil country goods	—	35,556	287	234,606	270,778	—	—	—	128
Line pipe	—	114,156	1,478	131,566	247,199	—	—	22	22
Mechanical tubing	—	898	1	14,767	15,666	—	—	188	188
Pressure tubing	—	50	51	30,385	30,486	—	—	247	247
Stainless pipe & tubing	—	459	—	7,021	7,483	2	6	—	—
Pipe & tubing nonclassified	—	156,113	14,467	127,932	298,556	503	503	13,626	13,626
Structural pipe & tube, sq. & rect	—	3,584	109	103,545	107,238	119	119	1,698	1,698
Wire drawn	289	3,479	1,465	136,254	141,838	1,671	4,383	8,619	8,619
Wire nails	46,268	143,162	2,818	29,834	223,253	—	128	19	19
Barbed wire	207	4,541	106	119	4,974	37	167	608	608
Galvanized wire fencing	—	6	—	3	36	—	287	21	21
Bale ties & baling wire	—	—	—	—	—	—	—	40	40
Black plate	—	—	—	133,507	133,507	104	104	575	575
Tin plate	—	2,751	—	164,310	167,061	8,740	8,740	354	354
Tin free steel	—	—	—	36,512	36,512	—	—	—	—
Sheets—hot rolled	—	207,150	2,495	366,133	575,907	7,975	7,975	89,467	89,467
Sheets—cold rolled	—	197,522	819	577,660	776,001	12,902	13,348	102,864	102,864
Sheets galvanized	—	144,122	773	879,638	1,024,533	99,581	116,131	85,919	85,919
All other metallic coated	—	18,300	23	165,315	183,639	10,425	10,699	22,713	22,713
Electric sheets & strip	—	19	—	17,095	17,113	59	59	—	—
Strip—hot rolled	—	3,706	—	9,747	13,453	78	78	—	—
Strip—cold rolled	—	155	11	22,866	23,033	217	484	—	—
Total steel mill products	**48,926**	**1,727,573**	**177,161**	**4,236,915**	**5,204,055**	**185,083**	**205,908**	**556,896**	**557,024**
Carbon	48,731	1,715,302	176,968	4,036,467	5,990,924	184,912	205,733	556,337	556,465
Alloy	195	2,214	182	139,846	142,457	165	165	347	347
Stainless	—	10,057	11	60,602	70,673	5	9	212	212

Table 24A

Imports of Iron and Steel Products by Countries of Origin—1983

(Net tons)

	Grand Total	Canada	Latin America				
			Mexico	Vene-zuela	Brazil	Argen-tina	Total Latin America
Other Steel Products:							
Structural shapes, fabricated	203,312	76,294	3,474	117	33	—	3,652
Shapes — cold formed	1,552	1,319	—	—	—	—	—
Sashes and frames	1,432	1,047	7	—	—	—	7
Fence or sign posts	5,909	59	5,424	178	115	—	5,717
Wire — nonmetallic covered	747	184	—	—	—	—	—
Wire rope	106,594	3,669	521	—	2,609	64	3,195
Wire strand	163,228	3,383	517	—	3,633	6,913	11,063
Welded wire fabric	17,755	8,555	4,423	—	—	—	4,423
Other nails and staples	38,117	2,046	16	—	4	—	1,340
Bale ties — strip	643	24	5	—	—	—	5
Bolts, nuts and rivets	443,142	50,628	1,819	—	831	164	2,822
Grinding balls	4,990	3,564	53	—	101	—	154
Blanks, nonrectangular flat rolled	5,536	950	2,309	—	—	726	3,036
Rigid conduit	3,169	117	27	—	—	—	28
Pipe and tube fittings	72,657	2,179	329	—	3,057	—	3,388
Total other steel products	**1,068,782**	**154,018**	**18,926**	**295**	**10,383**	**7,868**	**38,830**
Total steel products	**18,138,677**	**2,532,635**	**669,935**	**157,979**	**1,267,389**	**290,121**	**2,453,357**
Iron products & ferroalloys:							
Bar iron, iron slabs & blooms etc	150	15	96	—	—	—	96
Cast iron soil pipe and fittings	439	136	7	—	—	—	7
Other cast iron pipe and fittings	9,541	2,271	101	1	1,052	—	1,153
Malleable cast iron pipe fittings	19,153	87	20	—	698	—	718
Castings and forgings	106,874	13,667	5,786	—	4,921	—	10,707
Pig iron	242,142	94,802	—	—	135,955	—	135,955
Sponge iron	135,321	35,835	1	89,880	—	—	89,881
Ferromanganese (manganese content)	266,327	1,761	28,519	—	22,022	—	50,541
Ferrosilicon (silicon content)	106,666	20,236	1,862	16,772	21,695	1,663	41,991
Ferrochromium (chromium content)	162,998	91	—	—	4,147	—	4,147
Other ferroalloys	113,096	929	—	—	23,160	—	37,401
Total Iron Products & Ferroalloys	**1,162,707**	**169,831**	**42,393**	**106,652**	**213,648**	**1,663**	**372,596**
Grand Total	**19,301,384**	**2,702,466**	**712,328**	**264,631**	**1,481,037**	**291,784**	**2,825,953**
Iron and steel scrap	640,770	589,644	32,590	560	398	15	35,876

Country total may not add to regional total because of omissions of some countries.

Table 24A *(continued)*

Imports of Iron and Steel Products by Countries of Origin—1983

(Net tons)

	Europe													
	European Economic Community													
	United Kingdom	Nether-lands	Belgium-Luxembourg	France	Fed Rep Germany	Italy	Greece	Total E.E.C.*	Sweden	Finland	Austria	Poland	Spain	Total Europe
Other Steel Products:														
Structural shapes, fabricated	1,672	337	2,770	260	1,777	9,027	—	15,858	146	93	58	—	165	16,451
Shapes — cold formed	5	123	5	—	50	—	—	183	37	—	11	—	—	232
Sashes and frames	18	—	2	5	48	17	—	93	2	—	—	—	—	95
Fence or sign posts	1	2	19	1	1	2	—	46	—	—	—	—	—	46
Wire — nonmetallic covered	43	1	6	5	51	—	—	132	—	—	—	—	—	137
Wire rope	790	536	17,425	11,033	829	554	—	31,222	124	2	3	—	3,835	36,801
Wire strand	3,444	3,926	9,292	8,633	4,666	13,477	—	42,445	6	—	1,893	11	18,948	63,311
Welded wire fabric	1021	852	1,704	2	178	—	—	3,757	17	—	—	—	317	4,102
Other nails and staples	295	49	18	959	4,504	1,568	—	7,394	2,461	—	1,690	127	766	12,926
Bale ties — strip	—	—	—	—	614	—	—	614	—	—	—	—	—	614
Bolts, nuts and rivets	794	1,150	31	198	3,935	5,257	—	11,615	909	4	45	845	1,251	18,940
Grinding balls	23	—	—	23	88	471	—	605	—	—	—	—	331	942
Blanks, nonrectangular flat rolled	49	19	1	213	271	—	—	554	26	—	29	—	420	1,057
Rigid conduit	156	77	19	1,281	542	—	—	2,075	—	—	—	—	1	2,135
Pipe and tube fittings	5,347	535	142	5,836	3,399	9,231	—	24,513	28	1	68	1	1,517	26,332
Total other steel products	**13,658**	**7,608**	**30,435**	**28,449**	**20,953**	**39,606**	**—**	**141,105**	**3,759**	**100**	**3,799**	**983**	**27,551**	**184,119**
Total other steel products	**377,408**	**378,289**	**645,443**	**942,192**	**1,407,608**	**434,962**	**67,673**	**4,255,403**	**217,570**	**196,394**	**39,217**	**78,225**	**637,204**	**5,493,883**
Iron products & ferroalloys:														
Bar iron, iron slabs & blooms etc	20	—	—	—	—	—	—	21	—	—	—	—	—	21
Cast iron soil pipe and fittings	—	—	—	—	—	6	—	6	—	—	—	—	—	6
Other cast iron pipe and fittings	19	25	—	13	11	4	—	73	—	—	—	—	—	73
Malleable cast iron pipe fittings	216	—	—	7	25	22	—	269	—	—	—	—	7	277
Castings and forgings	5,236	106	123	1,636	2,265	19,572	—	28,963	184	—	—	19	819	30,729
Pig iron	20	—	915	772	—	—	—	1,707	—	—	—	—	—	1,710
Sponge iron	107	—	—	38	1,199	22	—	1,365	6,196	—	—	—	—	7,561
Ferromanganese (manganese content)	—	—	2,053	91,611	4,552	—	—	98,216	—	—	—	—	3,523	143,839
Ferrosilicon (silicon content)	39	—	—	4,565	1,518	176	—	6,297	243	—	—	—	—	44,420
Ferrochromium (chromium content)	25	—	1	14	1,130	105	—	1,275	7,670	—	—	—	113	42,582
Other ferroalloys	727	322	188	565	82	138	—	2,022	10	—	485	—	841	24,861
Total Iron Products & Ferroalloys	**6,408**	**453**	**3,280**	**99,221**	**10,782**	**20,045**	**—**	**140,214**	**14,303**	**—**	**485**	**19**	**5,304**	**296,079**
Grand Total	**383,816**	**378,742**	**648,723**	**1,041,413**	**1,418,390**	**455,007**	**67,673**	**4,395,617**	**231,873**	**196,394**	**39,702**	**78,244**	**642,508**	**5,789,962**
Iron and steel scrap	2,236	—	422	12	2,027	214	—	6,029	281	—	116	—	—	7,145

*Includes totals for Ireland & Denmark.

Table 24A *(continued)*

Imports of Iron and Steel Products by Countries of Origin—1983

(Net tons)

	Asia					Australia & Oceania		Africa	
	People's Republic of China	Korea Republic	China Taiwan	Japan	Total Asia	Australia	Australia & Oceania	Republic of South Africa	Total Africa
Other Steel Products:									
Structural shapes, fabricated	16	33,942	277	72,270	106,532	52	166	219	219
Shapes — cold formed	—	—	—	—	—	1	1	—	—
Sashes and frames	73	11	20	179	283	—	—	—	—
Fence or sign posts	—	14	44	—	86	—	—	—	—
Wire — nonmetalic covered	—	196	164	28	425	1	1	—	—
Wire rope	17	42,998	1,310	17,813	62,310	—	3	616	616
Wire strand	4	22,595	255	47,847	70,973	34	34	14,463	14,463
Welded wire fabric	511	—	40	116	671	—	4	—	—
Other nails and staples	4,223	13,249	458	3,709	21,805	—	—	—	—
Bale ties — strip	—	—	—	—	1	—	—	—	—
Bolts, nuts and rivets	10,600	18,394	91,253	244,957	369,404	431	431	917	917
Grinding balls	—	—	1	329	329	—	—	—	—
Blanks, nonrectangular flat rolled	—	56	—	304	370	—	—	123	123
Rigid conduit	52	598	60	82	890	—	—	—	—
Pipe and tube fittings	1,453	5,935	7,069	24,218	40,635	85	85	39	39
Total other steel products	**16,948**	**137,989**	**100,950**	**411,852**	**674,713**	**604**	**725**	**16,376**	**16,376**
Total steel products	**65,874**	**1,865,562**	**278,111**	**4,648,767**	**6,878,768**	**185,687**	**206,633**	**573,272**	**573,400**
Iron products & ferroalloys:									
Bar iron, iron slabs & blooms etc	—	—	10	1	11	7	7	—	—
Cast iron soil pipe and fittings	62	35	126	—	290	—	—	—	—
Other cast iron pipe and fittings	151	2,218	480	82	5,944	54	79	2	20
Malleable cast iron pipe fittings	200	1,532	4,249	8,929	18,069	—	—	3	3
Castings and forgings	5,901	1,331	9,183	4,047	50,877	52	76	819	819
Pig iron	—	—	—	—	25	—	—	9,650	9,650
Sponge iron	—	1	—	2,043	2,044	—	—	—	—
Ferromanganese (manganese content)	—	—	—	2,231	2,231	—	—	67,955	67,955
Ferrosilicon (silicon content)	—	—	—	20	20	—	—	—	—
Ferrochromium (chromium content)	—	553	—	1,044	1,597	—	—	79,959	114,581
Other ferroalloys	—	—	—	899	1,419	10,654	13,217	34,710	35,269
Total Iron Products & Ferroalloys	**6,314**	**5,870**	**14,047**	**19,298**	**82,525**	**10,767**	**13,379**	**193,098**	**228,296**
Grand Total	**72,188**	**1,871,232**	**292,158**	**4,668,065**	**6,961,293**	**196,454**	**220,012**	**766,370**	**801,696**
Iron and steel scrap	88	15	—	1,346	1,570	—	535	—	5,999

Table 25

Imports of Steel Mill Products By Countries of Origin

(Net Tons)

	1983			1982			1981			1980			1979		
	Net Tons	% Total	% Apparent Supply**	Net Tons	% Total	% Apparent Supply**	Net Tons	% Total	% Apparent Supply**	Net Tons	% Total	% Apparent Supply**	Net Tons	% Total	% Apparent Supply**
Canada	**2,378,617**	**13.9**	**2.9**	**1,844,199**	**11.1**	**2.4**	**2,898,795**	**14.6**	**2.7**	**2,369,501**	**15.3**	**2.5**	**2,353,883**	**13.4**	**2.0**
Mexico	651,009	3.8	0.8	112,875	0.7	0.1	40,904	0.2	...	67,395	0.4	0.1	159,627	0.9	0.1
Brazil	1,257,006	7.4	1.5	604,636	3.6	0.8	547,884	2.8	0.5	457,724	3.0	0.5	432,238	2.5	0.4
Argentina	282,253	1.7	0.3	167,487	1.0	0.2	61,121	0.3	0.1	18,253	0.1	...	37,579	0.2	...
Total Latin America	**2,414,527**	**14.2**	**2.9**	**974,399**	**5.8**	**1.3**	**782,156**	**3.9**	**0.8**	**629,938**	**4.1**	**0.7**	**647,069**	**3.7**	**0.6**
United Kingdom	363,750	2.1	0.4	486,436	2.9	0.6	573,676	2.9	0.5	236,784	1.5	0.2	433,727	2.5	0.4
Netherlands	370,681	2.2	0.4	375,481	2.2	0.5	462,572	2.3	0.4	340,302	2.2	0.4	499,981	2.8	0.4
Belgium-Luxembourg	615,008	3.6	0.7	929,440	5.6	1.2	1,108,593	5.6	1.1	870,058	5.6	0.9	956,405	5.5	0.8
France	913,743	5.4	1.1	977,372	5.9	1.3	1,289,365	6.5	1.2	966,937	6.2	1.0	1,340,670	7.7	1.2
West Germany	1,386,655	8.1	1.7	2,080,130	12.5	2.7	2,164,352	10.9	2.1	1,298,068	8.4	1.4	1,868,076	10.7	1.6
Italy	395,356	2.3	0.5	643,627	3.9	0.8	768,121	3.9	0.7	174,054	1.1	0.2	291,671	1.7	0.3
Total EEC*	**4,114,298**	**24.1**	**4.9**	**5,596,636**	**33.6**	**7.3**	**6,492,137**	**32.6**	**6.1**	**3,898,777**	**25.1**	**4.1**	**5,405,389**	**30.9**	**4.7**
Sweden	213,811	1.3	0.3	292,231	1.8	0.4	109,503	0.9	0.2	91,921	0.6	0.1	194,031	1.1	0.2
Finland	196,294	1.1	0.2	121,256	0.7	0.2	124,545	0.6	0.1	36,463	0.2	...	145,985	0.8	0.1
Poland	77,242	0.5	0.1	42,253	0.3	0.1	167,498	0.8	0.2	119,498	0.8	0.1	117,121	0.7	0.1
Spain	609,653	3.6	0.7	547,207	3.3	0.7	729,798	3.7	0.7	462,430	3.0	0.5	380,190	2.2	0.3
Romania	9,426	0.1	...	36,730	0.2	...	307,364	1.5	0.3	57,581	0.4	0.1	38,525	0.2	...
Total Europe	**5,309,764**	**31.1**	**6.4**	**5,774,638**	**40.7**	**8.9**	**8,077,373**	**40.6**	**7.7**	**4,743,912**	**30.6**	**5.0**	**6,392,770**	**36.5**	**5.6**
Japan	4,236,915	24.8	5.1	5,185,136	31.1	6.8	6,220,083	31.3	5.9	6,006,813	38.8	6.3	6,336,003	36.2	5.5
Korea Republic	1,727,573	10.1	2.1	1,062,076	6.4	1.4	1,218,381	6.1	1.2	1,039,895	6.7	1.1	965,656	5.6	0.9
Taiwan	177,161	1.0	0.2	117,574	0.7	0.2	131,192	0.7	0.1	85,949	0.6	0.1	108,515	0.6	0.1
Republic of So. Africa	556,896	3.3	0.7	529,782	3.2	0.7	371,098	1.9	0.4	440,661	2.8	0.5	485,307	2.8	0.4
Total Asia & Africa	**6,761,079**	**39.6**	**8.1**	**6,939,285**	**41.6**	**9.1**	**8,011,255**	**40.3**	**7.6**	**7,619,964**	**49.2**	**8.0**	**7,965,000**	**45.5**	**6.9**
Australia & Oceania	**205,908**	**1.2**	**0.2**	**130,011**	**0.8**	**0.2**	**128,750**	**0.6**	**0.1**	**131,655**	**0.8**	**0.1**	**159,413**	**0.9**	**0.1**
Total Imports of Steel Mill Products	**17,069,895**	**100.0**	**20.5**	**16,662,532**	**100.0**	**21.8**	**19,898,340**	**100.0**	**18.9**	**15,494,970**	**100.0**	**16.3**	**17,518,135**	**100.0**	**15.2**

*Includes total for Denmark and Ireland. Includes Greece starting in 1981.
Country detail may not add to regional total because of omissions of some countries.
**As developed in table 1A of this Report.

Table 26

Imports of Iron and Steel Products by Customs District—1983

(Net Tons)

Products	Grand Total	ATLANTIC COAST											
		Boston	Providnce Brdgport	New York City	Phila.	Baltimore/ Wash., DC	Norfolk	Wil-mington	Charles-ton	Savannah	Tampa	Miami	Total
Ingots, blooms, billets, slabs, etc	**822,483**	7	7,890	88,924	16,946	2,879	132	—	65	—	—	15	**116,858**
Wire rods	**1,185,291**	595	45,870	20,790	40,005	24,280	814	922	5,132	12,268	55,375	13,931	**219,982**
Structural shapes-plain 3" & over	**1,444,721**	341	133,196	12,251	25,982	41,710	69	46,506	7,877	54,818	42,198	1,463	**366,411**
Steel piling	**113,554**	—	16,601	2,422	4,399	4,756	—	784	640	6,071	2,976	1,405	**40,054**
Plates	**1,103,199**	44	79,379	7,885	20,044	18,354	74	29,580	6,547	54,104	38,592	2,051	**256,654**
Rails standard	**89,656**	5	242	—	402	10,097	3,206	—	—	1,159	—	—	**15,111**
Rails other	**17,815**	—	22	7	1,495	59	—	20	—	333	—	7	**1,943**
Joint bars and tie plates	**44,259**	—	—	68	4	1,259	4,145	—	—	—	—	—	**5,476**
Track spikes	**1,123**	—	—	22	—	95	—	18	—	58	—	—	**193**
Wheels and axles	**6,500**	95	51	1,101	234	489	90	—	20	11	—	3	**2,094**
Bars—hot rolled	**457,094**	701	14,663	9,884	8,724	12,561	660	1,918	3,106	2,741	1,178	405	**56,541**
Bars shapes under 3 inches	**88,288**	91	7,059	857	2,142	1,763	504	387	220	632	765	208	**14,628**
Concrete reinforcing bars	**208,303**	—	2,027	17	570	297	—	—	389	109	242	11,626	**15,277**
Bars—cold finished	**191,605**	906	10,789	20,965	16,042	10,993	316	2,337	1,655	3,223	2,374	556	**70,156**
Tool steel	**30,423**	2,393	1,345	6,757	1,163	5,043	2,479	203	558	139	4	22	**20,106**
Standard pipe	**971,410**	55	46,237	7,041	83,965	2,081	987	15,569	14,971	23,439	31,613	2,829	**228,787**
Oil country goods	**564,769**	—	41	53	504	970	3	—	—	10	70	36	**1,687**
Line pipe	**494,424**	—	—	212	4,140	2,295	162	—	157	876	2,343	89	**10,274**
Mechanical tubing	**40,124**	—	428	2,366	1,501	9,221	435	40	481	5,247	280	—	**19,999**
Pressure tubing	**48,459**	—	854	1,013	9,769	247	60	—	56	837	51	—	**12,887**
Stainless pipe & tubing	**19,159**	5	118	4,585	4,395	371	152	32	31	95	203	—	**9,987**
Pipe & tubing nonclassified	**537,095**	48	9,349	2,176	27,094	1,005	322	7,263	3,027	12,862	21,529	82	**84,757**
Structural pipe & tube, sq. & rect	**186,621**	—	497	—	2,331	113	—	1,132	181	6,355	6,319	—	**16,928**
Wire drawn	**458,632**	5,783	939	42,394	6,882	25,630	3,439	6,903	5,792	8,027	2,388	7,088	**115,265**
Wire nails	**374,038**	10,529	1,601	31,775	11,660	11,279	2,950	25,623	5,338	10,071	12,007	7,079	**129,912**
Barbed wire	**28,927**	119	—	198	717	774	870	1,498	388	963	2,224	161	**7,912**
Galvanized wire fencing	**10,142**	143	—	19	82	25	81	379	64	47	793	46	**1,679**
Bale ties & baling wire	**448**	—	—	—	157	—	—	—	—	—	—	—	**157**
Black plate	**170,420**	—	15,704	12,723	57,425	3,924	—	369	51	6,627	157	—	**96,980**
Tin plate	**290,535**	—	2,934	927	16,946	7,508	—	716	916	5,761	14,691	—	**50,399**
Tin free steel	**62,170**	—	205	43	8,903	2,074	—	—	—	—	—	—	**11,225**
Sheets—Hot rolled	**2,316,786**	4	136,185	13,710	162,484	8,181	—	29,478	3,196	24,726	15,636	6,663	**400,263**
—Cold rolled	**2,417,195**	8,554	205,698	110,372	194,150	12,898	324	32,077	32,552	22,335	1,976	7,144	**628,080**
Sheets galvanized	**1,824,163**	—	69,513	13,624	138,110	4,373	219	22,877	28,367	63,141	45,178	34,444	**420,046**
All other metallic coated	**286,295**	6	5,669	2,503	24,428	2,117	436	838	13,571	4,949	1,847	8,220	**64,584**
Electric sheets & strip	**46,595**	—	2,670	109	4,223	1,238	—	264	416	1,744	1,002	—	**11,666**
Strip—Hot rolled	**32,531**	114	3,733	730	317	744	359	179	1	540	1,989	101	**8,707**
—Cold rolled	**84,644**	1,090	8,224	12,049	2,207	3,739	—	167	2,199	114	921	46	**30,756**
Total Steel Mill Products	**17,069,895**	**31,629**	**829,734**	**430,770**	**900,542**	**235,443**	**23,285**	**228,082**	**137,963**	**334,432**	**306,823**	**105,722**	**3,564,425**
Carbon	**16,343,643**	17,656	815,552	360,888	853,114	187,109	18,054	225,223	129,465	321,519	304,285	105,508	**3,338,373**
Alloy	**535,928**	3,964	10,697	30,580	20,536	36,410	4,232	2,078	7,523	10,959	1,969	115	**129,063**
Stainless	**190,324**	10,010	3,484	39,302	26,893	11,924	999	781	975	1,955	569	99	**96,991**

Table 26 *(continued)*

Imports of Iron and Steel Products by Customs District—1983

(Net Tons)

Products	GULF COAST-MEXICAN BORDER							
	Mobile	New Orleans	Port Arthur	Houston	Dallas	Laredo	El Paso Nogales	Total
Steel Mill Products								
Ingots, blooms, billets, slabs, etc	353	23,882	4,248	12,319	1,632	1,002	47	43,483
Wire rods	12,954	111,548	3,846	69,278	241	14,122	—	211,989
Structural shapes-plain 3" & over	32,209	116,101	—	215,904	201	44,391	416	409,222
Steel piling	4,106	11,786	—	16,253	438	1	—	32,584
Plates	24,431	99,046	—	101,333	1,479	24,176	—	250,465
Rails standard	18,727	1,499	—	10,807	—	—	—	31,033
Rails other	1,183	275	—	276	—	18	—	1,752
Joint bars and tie plates	5,081	6,641	—	3	—	—	—	11,725
Track spikes	—	—	—	—	—	—	—	—
Wheels and axles	1,242	18	—	112	—	2	2	1,376
Bars—Hot rolled	949	23,773	—	16,143	1	7,201	159	48,226
Bars shapes under 3 inches	201	559	—	4,110	—	2,852	8	7,730
Concrete reinforcing bars	—	477	—	3,218	—	46,790	7,981	58,466
Bars—Cold finished	308	11,280	—	12,780	9	685	57	25,119
Tool steel	31	351	—	550	—	60	—	992
Standard pipe	9,564	92,591	—	147,022	1,406	71,214	835	322,632
Oil country goods	38,971	20,805	—	379,031	11,207	9,086	—	459,100
Line pipe	26,843	80,560	—	204,986	—	51,466	1,668	365,523
Mechanical tubing	29	1,268	—	5,209	780	13	32	7,331
Pressure tubing	25	15,573	—	12,059	2,070	1,050	—	30,777
Stainless pipe & tubing	13	359	—	5,698	3	61	—	6,134
Pipe & tubing nonclassified	1,801	57,196	—	183,721	367	10,676	515	254,276
Structural pipe & tube, sq. & rect	270	13,160	1	21,533	422	1,150	—	36,536
Wire drawn	8,050	30,528	—	15,507	193	314	1,100	55,692
Wire nails	1,455	27,732	—	40,976	484	4,337	5	74,989
Barbed wire	794	4,022	—	4,305	—	4,709	266	14,096
Galvanized wire fencing	120	98	—	59	1	4,097	236	4,611
Bale ties & baling wire	—	—	—	58	—	2	—	60
Black plate	1,473	12,880	—	7,956	—	—	—	22,309
Tin plate	1,776	27,610	—	5,764	—	—	—	25,150
Tin free steel	600	7,519	—	2,240	—	—	—	10,359
Sheets—Hot rolled	44,823	119,488	—	337,666	1,490	35,616	2	539,085
—Cold rolled	20,067	211,894	—	191,381	1,412	20,228	5,886	450,868
Sheets galvanized	7,780	192,094	—	295,914	328	62,420	297	558,833
All other metallic coated	1,674	53,160	—	26,571	—	13,448	—	94,853
Electric sheets & strip	116	5,072	—	507	—	—	—	5,695
Strip—Hot rolled	444	2,336	—	4,598	—	2,262	—	9,640
—Cold rolled	401	4,438	—	4,991	—	813	—	10,643
Total Steel Mill Products	**268,864**	**1,387,617**	**8,095**	**2,360,837**	**24,165**	**434,266**	**19,509**	**4,503,353**
Carbon	262,233	1,342,883	3,847	2,274,741	11,993	429,079	19,045	4,343,821
Alloy	6,443	38,012	4,248	70,745	12,168	4,590	464	136,671
Stainless	189	6,721	—	15,351	5	596	—	22,862

Table 26 *(continued)*

Imports of Iron and Steel Products by Customs District—1983

(Net Tons)

Products	PACIFIC COAST						OFF SHORE				
	San Diego	Los Angeles	San Francisco	Portland	Seattle	Total	Virgin Islands	Anch-orage	Hono-lulu	San Juan	Total
Steel Mill Products											
Ingots, blooms, billets, slabs, etc	—	123,336	141	—	1,059	**124,536**	—	—	—	—	—
Wire rods	7,980	182,509	84,411	667	52,462	**328,029**	—	—	65	2,330	**2,395**
Structural shapes-plain 3" & over	17,471	195,879	92,263	55,501	23,039	**384,153**	—	1,621	1,038	6,288	**8,947**
Steel piling	9	3,036	6,478	5,379	5,925	**20,827**	—	3,208	15	—	**3,223**
Plates	1,349	114,848	23,084	36,768	21,955	**198,004**	—	2,285	—	4,303	**6,588**
Rails standard	—	9,440	51	17,092	4,681	**31,264**	—	—	—	—	—
Rails other	—	213	504	1,461	6,602	**8,780**	—	—	—	—	—
Joint bars and tie plates	—	4,427	30	12,890	8,591	**25,938**	—	—	—	—	—
Track spikes	—	3	—	—	910	**913**	—	—	—	—	—
Wheels and axles	—	286	8	—	1,968	**2,262**	—	—	—	—	—
Bars—Hot rolled	2,629	30,360	7,000	4,489	2,506	**46,984**	—	210	653	16,077	**16,940**
Bars shapes under 3 inches	8,163	18,841	4,655	1,718	2,013	**35,390**	—	43	254	2,183	**2,480**
Concrete reinforcing bars	4,980	31,451	27,539	2,820	808	**67,598**	159	2,132	43	60,161	**62,495**
Bars—Cold finished	10	30,665	5,129	4,937	3,408	**44,149**	—	23	—	878	**901**
Tool steel	—	2,197	156	129	559	**3,041**	—	—	—	22	**22**
Standard pipe	221	222,794	51,807	30,283	12,524	**317,629**	13	2,663	2,561	9,694	**14,931**
Oil country goods	319	60,074	688	—	1,435	**62,516**	325	11,336	—	—	**11,661**
Line pipe	404	69,228	9,660	8,385	5,510	**93,187**	613	18,423	—	44	**19,080**
Mechanical tubing	—	985	739	243	1,631	**3,598**	—	—	—	499	**499**
Pressure tubing	211	2,727	809	57	310	**4,114**	—	16	—	34	**50**
Stainless pipe & tubing	—	1,663	54	405	199	**2,321**	—	2	24	—	**26**
Pipe & tubing nonclassified	2	59,446	14,943	22,454	15,965	**112,810**	—	10,372	398	5,398	**16,168**
Structural pipe & tube, sq & rect	—	25,914	14,023	16,103	5,129	**61,169**	—	268	235	243	**746**
Wire drawn	17	20,573	7,949	10,007	41,677	**80,223**	—	9	2,045	11,467	**13,521**
Wire nails	—	31,497	30,792	4,204	21,387	**87,880**	—	508	668	1,437	**2,613**
Barbed wire	1	1,018	1,346	566	406	**3,337**	—	11	164	2,093	**2,268**
Galvanized wire fencing	2	2	—	24	159	**187**	—	—	128	118	**246**
Bale ties & baling wire	49	—	65	—	—	**114**	—	—	—	11	**11**
Black plate	—	10,543	12,655	—	—	**23,198**	—	—	—	—	—
Tin plate	—	31,884	63,814	58	—	**95,756**	—	—	37,839	18,707	**56,546**
Tin free steel	—	19,346	2,399	—	—	**21,745**	—	—	—	4,930	**4,930**
Sheets—Hot rolled	19,239	390,391	65,343	68,831	21,121	**564,925**	—	1,987	91	3,099	**5,177**
—Cold rolled	14,220	468,123	124,691	10,202	8,339	**625,575**	—	—	—	5,146	**5,146**
Sheets galvanized	87	203,529	74,611	63,597	70,740	**412,564**	—	1,640	3,618	24,616	**29,874**
All other metallic coated	2	38,019	25,397	2,206	1,070	**66,694**	—	—	754	3,282	**4,036**
Electric sheets & strip	—	3,286	2,742	—	285	**6,313**	—	—	—	—	—
Strip—Hot rolled	41	5,068	813	1,013	404	**7,339**	—	3	53	179	**235**
—Cold rolled	159	7,436	3,156	1,551	4,237	**16,539**	—	—	9	1,192	**1,201**
Total Steel Mill Products	**77,567**	**2,421,035**	**759,941**	**384,040**	**349,014**	**3,991,597**	**1,110**	**56,759**	**50,656**	**184,430**	**292,955**
Carbon	77,436	2,355,410	750,347	375,825	335,674	**3,894,692**	1,057	55,953	50,630	181,342	**288,982**
Alloy	130	36,499	6,465	6,567	10,662	**60,323**	53	804	2	2,868	**3,727**
Stainless	—	29,126	3,129	1,648	2,679	**36,582**	—	2	24	220	**246**

Table 26 *(continued)*

Imports of Iron and Steel Products by Customs District—1983

(Net Tons)

Products	GREAT LAKES-CANADIAN BORDER												
	Port-land	St. Albans	Ogdens-burg	Buffalo	Great Falls	Pem-bina	Duluth Mineapls	Mil-waukee	Detroit	Chicago	Cleveland	St. Louis	Total
Steel Mill Products													
Ingots, blooms, billets, slabs, etc.	1	5	1,536	24,693	145	—	—	345	419,298	7,853	83,729	—	**537,605**
Wire rods	—	5,724	84,690	57,089	—	—	132	—	187,089	42,931	45,241	—	**422,896**
Structural shapes-plmn 3" & over	55	10,085	11,357	101,541	13	17,175	85	—	81,877	38,965	14,833	—	**275,986**
Steel piling	13	—	1,796	631	—	55	—	—	8,329	4,143	1,900	—	**16,867**
Plates	99	2,495	3,088	159,045	450	40	7,373	1,235	112,914	86,901	17,669	181	**391,490**
Rails standard	393	15	156	89	19	1	7,385	—	3,485	659	44	—	**12,246**
Rails other	188	25	73	278	60	10	—	—	3,796	274	636	—	**5,340**
Joint bars and tie plates	42	82	142	170	8	—	—	—	632	44	1	—	**1,121**
Track spikes	2	7	7	—	—	—	—	—	—	—	—	—	**16**
Wheels and axles	106	364	151	14	—	—	—	—	130	2	—	—	**767**
Bars—Hot rolled	165	2,480	4,497	30,286	464	14,468	—	1,211	176,751	31,364	26,717	—	**288,403**
Bars shapes under 3 inches	5	967	1,370	9,260	—	—	56	12	15,173	1,086	132	—	**28,061**
Concrete reinforcing bars	19	360	559	857	—	3	—	—	2,671	—	—	—	**4,469**
Bars—Cold finished	33	1,538	724	12,986	—	—	1,075	20	18,026	15,836	1,034	9	**51,281**
Tool steel	26	15	159	374	—	—	96	31	2,438	2,792	327	2	**6,260**
Standard pipe	29	410	4,924	9,730	3,441	563	123	—	32,568	35,138	504	—	**87,430**
Oil country goods	—	3	51	1,737	1,857	33	624	—	25,463	5	16	14	**29,803**
Line pipe	33	14	30	248	1,278	2,951	763	27	346	555	111	—	**6,356**
Mechanical tubing	1	131	142	3,789	163	37	22	—	1,252	2,262	898	—	**8,697**
Pressure tubing	3	2	5	113	—	41	3	52	61	263	74	15	**632**
Stainless pipe & tubing	—	108	167	264	7	—	—	—	72	71	1	—	**690**
Pipe & tubing nonclassified	274	670	881	10,260	10,192	4,721	79	39	38,052	1,693	2,222	—	**69,083**
Structural pipe & tube, sq. & rect.	74	1,610	1,285	27,986	389	482	—	—	39,396	5	—	17	**71,244**
Wire drawn	2,776	24,786	27,394	36,801	1	3	512	1,217	44,756	45,709	9,808	171	**193,934**
Wire nails	717	17,305	20,832	9,434	2	—	846	—	16,727	11,765	908	106	**78,642**
Barbed wire	—	43	237	248	—	—	776	—	7	3	—	—	**1,314**
Galvanized wire fencing	18	2	2,584	505	—	—	—	—	269	41	—	—	**3,419**
Bale ties & baling wire	20	3	—	14	—	—	—	—	3	—	2	65	**107**
Black plate	1	—	3	766	—	—	—	—	6,657	9,343	11,165	—	**27,935**
Tin plate	—	7	395	17,208	—	—	—	—	12,680	18,769	3,624	—	**52,683**
Tin free steel	—	—	6	178	—	—	—	—	231	13,497	—	—	**13,912**
Sheets—Hot rolled	19	3,202	4,539	23,955	975	97	31,331	—	348,326	256,838	131,364	6,693	**807,339**
—Cold rolled	—	2,057	6,882	30,364	—	—	16,681	37	281,633	315,605	49,881	4,385	**707,525**
Sheets galvanized	22	84	53	45,572	168	68	4,431	—	258,518	78,643	14,903	384	**402,846**
All other metallic coated	73	29	3,264	172	—	333	—	33	14,908	26,509	10,807	—	**56,128**
Electric sheets & strip	—	—	—	4,786	—	—	—	—	5,917	11,824	394	—	**22,921**
Strip—Hot rolled	12	719	656	1,588	—	—	—	60	3,796	137	—	—	**6,968**
—Cold rolled	—	106	1,077	10,558	19	—	4	21	9,360	2,622	1,379	—	**25,146**
Total Steel Mill Products	**5,220**	**75,455**	**185,711**	**633,591**	**19,649**	**41,081**	**72,398**	**4,340**	**2,173,605**	**1,084,147**	**430,323**	**12,042**	**4,717,562**
Carbon	5,058	75,079	180,302	607,789	17,840	39,224	72,009	4,107	2,053,483	999,449	411,793	11,646	**4,477,779**
Alloy	162	68	1,806	23,758	1,782	1,857	389	206	114,027	43,957	18,112	17	**206,141**
Stainless	—	307	3,604	2,044	28	—	—	27	6,095	20,741	418	379	**33,643**

Table 26A

Imports of Iron and Steel Products by Customs District—1983

(Net Tons)

Products	Grand Total	ATLANTIC COAST											
		Boston	Providnce Brdgport	New York City	Phila.	Baltimore/ Wash., DC	Norfolk	Wil- mington	Charles ton	Savannah	Tampa	Miami	Total
Other Steel Products													
Structural shapes, fabricated	203,312	192	9	1,884	505	428	11	61	366	3,448	15,953	59	**22,916**
Shapes—Cold formed	1,552	45	—	60	—	—	—	2	12	8	—	—	**127**
Sashes and frames	1,432	24	1	36	6	84	—	—	—	2	—	9	**162**
Fence or sign posts	5,909	1	—	16	16	1	—	—	—	—	—	2	**36**
Wire—nonmetallic covered	747	1	—	73	8	20	—	—	2	1	—	20	**125**
Wire rope	106,594	2,644	—	6,075	406	4,446	10,601	14,550	4,429	4,965	2,193	626	**50,935**
Wire strand	163,228	1,334	114	17,084	3,592	6,882	2,399	6,152	7,415	7,196	4,146	10,524	**66,838**
Welded wire fabric	17,755	257	69	697	37	150	147	34	33	35	331	131	**1,921**
Other nails and staples	38,117	717	301	3,270	627	720	670	4,040	1,719	2,053	2,721	797	**17,635**
Bale ties—Strip	643	—	—	—	—	—	—	—	—	—	—	1	**1**
Bolts, nuts and rivets	443,142	7,212	1,515	62,061	9,640	30,112	2,519	4,380	1,046	22,934	5,743	3,292	**150,454**
Grinding balls	4,990	—	—	461	5	17	—	—	—	11	—	—	**494**
Blanks, nonrectangular flat rolled	5,536	37	2	421	236	222	15	—	5	—	2	2	**942**
Rigid conduit	3,169	1	—	912	790	—	4	—	--	4	—	1	**1,712**
Pipe and tube fittings	72,657	985	1	4,735	286	1,256	349	375	319	1,804	3,438	368	**13,916**
Total Other Steel Products	1,068,782	13,449	2,012	97,784	16,154	44,337	16,716	29,593	15,345	42,462	34,528	15,829	**328,209**
Total Steel Products	18,138,677	45,078	831,746	528,554	916,696	279,780	40,001	257,675	153,308	376,894	341,351	121,551	**3,892,634**
Iron Products & Ferroalloys													
Bar iron, iron slabs & blooms, etc	150	—	—	7	—	—	—	—	—	—	—	—	**7**
Cast iron soil pipe and fittings	439	3	—	69	20	—	—	—	—	—	—	—	**92**
Other cast iron pipe and fittings	9,541	981	—	601	58	1,054	91	—	51	381	28	--	**3,245**
Malleable cast iron pipe fittings	19,153	319	3	4,203	341	914	—	112	18	859	778	254	**7,801**
Castings and forgings	106,874	1,344	948	17,028	3,515	8,556	2,963	2,398	563	3,408	101	279	**41,103**
Pig iron	242,142	2,800	2,910	—	19,957	—	—	—	—	5,184	—	—	**30,851**
Sponge iron	135,321	62	—	351	6,653	580	—	—	4,942	115	1	1	**12,705**
Ferromanganese (manganese content)	266,327	—	—	—	11,809	35,421	—	—	4,381	—	—	—	**51,611**
Ferrosilicon (silicon content)	106,666	—	—	133	84	6,776	—	—	89	—	—	—	**7,082**
Ferrochromium (chromium content)	162,998	—	3,453	12	8,689	20,700	—	—	2,135	—	—	—	**34,989**
Other Ferroalloys	113,096	—	—	134	3,584	26,607	—	—	2,149	—	1	—	**32,475**
Total Iron Products & Ferroalloys	1,162,707	5,509	7,314	22,537	54,710	100,608	3,054	2,511	14,328	9,947	909	534	**221,961**
Grand Total	19,301,384	50,587	839,060	551,091	971,406	380,388	43,055	260,186	167,636	386,841	342,260	122,085	**4,114,595**
Iron and steel strap	640,770	—	—	587	1,746	1,188	139	—	64	—	825	615	**5,164**

Table 26A *(continued)*

Imports of Iron and Steel Products by Customs District—1983

(Net Tons)

Products	GULF COAST-MEXICAN BORDER							
	Mobile	New Orleans	Port Arthur	Houston	Dallas	Laredo	El Paso Nogales	Total
Other Steel Products								
Structural shapes, fabricated	401	14,021	—	19,446	1	1,091	57	35,017
Shapes—Cold formed	—	—	—	88	—	—	—	88
Sashes and frames	—	—	—	175	—	6	—	181
Fence or sign posts	—	92	—	115	—	2,969	1,179	4,355
Wire—nonmetallic covered	1	13	—	64	1	—	—	79
Wire rope	3,147	15,795	—	12,342	—	406	2	31,692
Wire strand	6,469	9,039	—	42,501	40	490	1	58,540
Welded wire fabric	15	117	—	266	—	4,300	16	4,714
Other nails and staples	789	2,950	—	3,105	83	28	21	6,976
Bale ties—Strip	—	—	—	—	—	5	263	268
Bolts, nuts and rivets	10,879	10,148	—	17,095	768	1,155	—	40,045
Grinding balls	7	—	—	68	—	53	—	128
Blanks, nonrectangular flat rolled	—	80	—	740	5	2,08[illegible]	204	3,113
Rigid conduit	—	—	—	—	3	27	—	30
Pipe and tube fittings	1,565	4,004	—	28,774	914	387	6	35,650
Total Other Steel Products	**23,272**	**56,259**	**—**	**124,780**	**1,816**	**13,002**	**1,749**	**220,878**
Total Steel Products	**292,136**	**1,443,876**	**8,095**	**2,485,617**	**25,981**	**447,268**	**21,258**	**4,724,231**
Iron Products & Ferroalloys								
Bar iron, iron slabs &blooms, etc.	—	—	—	27	—	95	1	123
Cast iron soil pipe and fittings	125	—	—	36	—	—	—	161
Other cast iron pipe and fittings	53	84	—	460	19	1	—	617
Malleable cast iron pipe fittings	111	626	—	2,136	386	—	20	3,279
Castings and forgings	1,466	6,025	—	19,193	132	503	2,772	30,111
Pig iron	775	59,452	—	935	—	277	—	61,439
Sponge iron	40	23,884	—	3	—	1	—	23,928
Ferromanganese (manganese content)	16,946	135,040	—	11	—	668	—	152,665
Ferrosilicon (silcon content)	5,138	46,266	—	3,117	—	221	691	55,433
Ferrochromium (chromium content)	1	124,451	—	1,098	—	—	—	125,550
Other Ferroalloys	3,602	56,472	—	7,768	—	39	205	68,086
Total Iron Products & Ferroalloys	**28,277**	**452,299**	**—**	**34,784**	**536**	**1,804**	**3,690**	**521,390**
Grand Total	**320,413**	**1,896,175**	**8,095**	**2,520,401**	**26,517**	**449,072**	**24,948**	**5,245,621**
Iron and steel scrap	466	2,344	832	143	—	27,121	3,901	34,807

Table 26A *(continued)*

Imports of Iron and Steel Products by Customs District—1983

(Net Tons)

Products	PACIFIC COAST						OFF SHORE				
	San Diego	Los Angeles	San Francisco	Portland	Seattle	Total	Virgin Islands	Anchorage	Honolulu	San Juan	Total
Other Steel Products											
Structural shapes, fabricated	2,333	23,420	7,395	9,711	16,647	**59,505**	1,216	13,849	53	437	**15,555**
Shapes—Cold formed	—	11	—	—	21	**32**	—	—	—	—	**—**
Sashes and frames	1	9	7	—	78	**95**	—	—	—	—	**—**
Fence or sign posts	1,261	24	22	—	—	**1,307**	2	—	—	124	**126**
Wire—nonmetallic covered	—	286	10	—	9	**305**	—	—	1	109	**110**
Wire rope	164	2,903	2,995	4,248	6,606	**16,916**	—	21	266	—	**287**
Wire strand	27	9,617	6,260	7,811	5,465	**29,180**	—	—	2,036	465	**2,501**
Welded wire fabric	108	915	482	16	673	**2,194**	78	—	3	745	**826**
Other nails and staples	—	6,438	1,777	275	1,154	**9,644**	—	5	35	252	**292**
Bale ties—Strip	—	614	—	—	—	**614**	—	—	—	24	**24**
Bolts, nuts and rivets	951	109,456	6,421	8,849	46,040	**171,717**	—	55	113	595	**763**
Grinding balls	—	649	—	—	15	**664**	—	—	—	—	**—**
Blanks, nonrectangular flat rolled	21	100	89	—	45	**255**	—	—	—	—	**—**
Rigid conduit	—	578	9	—	—	**587**	—	—	—	—	**—**
Pipe and tube fittings	3	6,760	878	1,697	1,412	**10,750**	—	341	2	4	**347**
Total Other Steel Products	**4,869**	**161,780**	**26,343**	**32,606**	**78,166**	**303,764**	**1,295**	**14,272**	**2,508**	**2,754**	**20,829**
Total Steel Products	**82,436**	**2,582,815**	**786,284**	**416,646**	**427,180**	**4,295,361**	**2,405**	**71,031**	**53,164**	**187,184**	**313,784**
Iron Products & Ferroalloys											
Bar iron, iron slabs & blooms, etc.	—	3	—	—	1	**4**	—	—	—	—	**—**
Cast iron soil pipe and fittings	7	16	—	—	72	**95**	4	—	—	6	**10**
Other cast iron pipe and fittings	934	1,922	226	48	64	**3,194**	—	—	3	—	**3**
Malleable cast iron pipe fittings	—	6,044	384	102	385	**6,915**	—	—	—	76	**76**
Castings and forgings	3,842	4,450	5,579	496	1,845	**16,212**	—	—	37	151	**188**
Pig iron	—	1,120	—	—	3,641	**4,761**	—	—	—	—	**—**
Sponge iron	—	282	11	—	26	**319**	—	—	—	—	**—**
Ferromanganese (manganese content)	—	849	12,322	1,892	—	**15,063**	—	—	—	—	**—**
Ferrosilicon (silicon content)	—	13	54	82	—	**149**	—	—	—	—	**—**
Ferrochromium (chromium content)	—	235	28	200	18	**481**	—	—	—	—	**—**
Other Ferroalloys	—	7,250	—	3,337	—	**10,587**	—	—	67	—	**67**
Total Iron Products & Ferroalloys	**4,783**	**22,183**	**18,603**	**6,157**	**6,052**	**57,778**	**4**	**—**	**106**	**233**	**343**
Grand Total	**87,219**	**2,604,998**	**804,887**	**422,803**	**433,232**	**4,353,139**	**2,409**	**71,031**	**53,270**	**187,417**	**314,127**
Iron and steel scrap	8,894	1,607	20	27	146,428	**156,976**	—	—	—	—	**—**

Table 26A *(continued)*

Imports of Iron and Steel Products by Customs District—1983

(Net Tons)

Products	GREAT LAKES-CANADIAN BORDER												
	Portland	St. Albans	Ogdensburg	Buffalo	Great Falls	Pembina	Duluth Mineapls	Milwaukee	Detroit	Chicago	Cleveland	St. Louis	Total
Other Steel Products													
Structural shapes, fabricated	12,720	3,336	8,344	40,585	837	294	83	326	3,366	377	44	3	70,315
Shapes—Cold formed	—	—	993	271	—	—	—	—	35	4	—	—	1,303
Sashes and frames	7	35	140	636	2	31	12	—	120	3	10	—	996
Fence or sign posts	—	22	19	13	—	—	—	4	26	3	—	1	88
Wire—nonmetallic covered	—	93	—	8	—	1	—	4	94	2	36	—	238
Wire rope	356	155	348	611	22	19	120	—	557	4,318	23	129	6,658
Wire strand	368	158	332	527	—	4	69	2	625	3,806	195	86	6,172
Welded wire fabric	18	4,208	391	2,182	1	—	24	44	1,198	38	—	—	8,104
Other nails and staples	—	156	479	382	20	—	—	1	1,144	1,132	63	193	3,570
Bale ties—Strip	—	—	—	—	—	—	—	—	—	—	—	—	—
Bolts, nuts and rivets	29	1,792	14,263	8,718	226	81	220	264	27,622	20,466	5,463	755	79,899
Grinding balls	—	—	25	2,867	—	4	—	—	805	—	3	—	3,704
Blanks, nonrectangular flat rolled	23	14	77	122	—	—	—	39	814	122	7	—	1,218
Rigid conduit	—	2	96	2	7	—	—	—	14	582	143	—	839
Pipe and tube fittings	6	304	187	615	83	50	102	—	1,888	8,232	412	115	11,994
Total Other Steel Products	13,526	10,274	25,694	57,538	1,197	483	631	684	38,307	39,085	6,398	1,284	195,101
Total Steel Products	18,746	85,729	211,405	691,129	20,846	41,564	73,029	5,024	2,211,912	1,103,232	436,721	13,326	4,912,663
Iron Products & Ferroalloys													
Bar iron, iron slabs & blooms, etc	—	—	—	—	—	—	—	—	15	—	—	—	15
Cast iron soil pipe and fittings	—	30	—	38	23	—	—	—	30	—	—	—	121
Other cast iron pipe and fittings	—	—	683	869	16	3	7	—	717	110	10	9	2,444
Malleable cast iron pipe fittings	—	—	53	224	7	—	—	—	85	527	110	76	1,082
Castings and forgings	233	3,116	3,612	2,325	275	45	33	163	4,475	4,238	567	179	19,261
Pig iron	—	1,714	570	1,458	—	—	—	44,193	15,089	16,824	65,243	—	145,091
Sponge iron	—	467	6,923	13,290	—	—	1	—	15,677	585	61,428	—	98,371
Ferromanganese (manganese content)	—	—	—	5,243	—	—	—	—	10,800	24,026	6,920	—	46,989
Ferrosilicon (silicon content)	40	—	891	12,685	—	—	—	16	15,583	423	14,365	—	44,003
Ferrochromium (chromium content)	—	—	—	1,176	—	—	—	—	127	28	645	—	1,976
Other Ferroalloys	—	—	292	279	—	—	—	9	781	58	462	—	1,881
Total Iron Products & Ferroalloys	273	5,327	13,023	37,607	320	48	41	44,382	63,380	46,819	149,750	263	361,233
Grand Total	19,019	91,056	224,428	728,736	21,166	41,612	73,070	49,406	2,275,292	1,150,051	586,471	13,589	5,273,896
Iron and steel scrap	346	2,018	4,669	55,661	292	178	165	138	337,747	86	42,520	—	443,820

RAW STEEL PRODUCTION

Raw steel is defined as steel in the first solid state after melting suitable for further processing or sale, including ingots, steel for foundry castings and strand or pressure cast blooms, billets, slabs, or other product forms.

Raw steel production capability is defined as the tonnage capability to produce raw steel for a sustained full order book.

Table 27

Raw Steel Production by Type of Furnace, Grade and Cast

(Thousands of net tons)

	Open Hearth			Basic Oxygen Process			Electric			
Year	Carbon	Alloy	Total	Carbon	Alloy	Total	Carbon	Alloy	Stainless	Total
1983	5,703	248	5,951	48,115	3,934	52,050	19,965	4,900	1,750	26,615
1982	5,642	468	6,110	41,214	4,095	45,309	17,287	4,635	1,235	23,158
1981	12,195	1,257	13,452	65,701	7,530	73,231	23,566	8,836	1,743	34,145
1980	11,844	1,210	13,054	60,532	7,083	67,615	22,313	7,152	1,701	31,166
1979	17,200	1,958	19,158	75,334	7,922	83,256	23,692	8,128	2,107	33,927
1978	19,026	2,284	21,310	75,053	8,431	83,484	22,837	7,446	1,954	32,237
1977	18,045	1,998	20,043	70,551	6,857	77,408	19,534	6,486	1,862	27,882
1976	21,426	2,044	23,470	73,588	6,330	79,918	16,994	5,934	1,684	24,612
1975	19,794	2,367	22,161	64,840	6,961	71,801	15,726	5,843	1,111	22,680
1974	32,479	3,020	35,499	74,534	7,018	81,552	19,595	6,924	2,150	28,669
1973	36,768	3,012	39,780	76,868	6,392	83,260	19,111	6,759	1,889	27,759
1972	32,036	2,900	34,936	69,231	5,353	74,584	16,431	5,726	1,564	23,721
1971	32,612	2,947	35,559	59,472	4,471	63,943	14,923	4,755	1,263	20,941
1970	44,361	3,661	48,022	58,889	4,441	63,330	14,161	4,722	1,279	20,162
1969	55,530	5,364	60,894	55,927	4,309	60,236	13,375	5,188	1,569	20,132

Table 27 *(continued)*

Raw Steel Production by Type of Furnace, Grade and Cast

(Thousands of net tons)

	Total All Grades				Per Cent of Total						Production by Type of Cast		
					By Grade			By Type of Furnace			(Thousands of net tons)		
	Carbon	Alloy	Stainless	Total	Carbon	Alloy	Stain-less	OH	BOP	Elec-tric	Ingots	Cont. Cast	Steel Cast
1983	73,783	9,082	1,750	84,615	87.2	10.7	2.1	7.0	61.5	31.5	57,385	27,174	56
1982	64,143	9,198	1,235	74,577	86.0	12.3	1.7	8.2	60.7	31.1	52,875	21,628	74
1981	101,462	17,623	1,743	120,828	84.0	14.6	1.4	11.1	60.6	28.3	94,516	26,138	173
1980	94,689	15,445	1,701	111,835	84.7	13.8	1.5	11.7	60.4	27.9	88,937	22,720	178
1979	116,226	18,008	2,107	136,341	85.3	13.2	1.5	14.0	61.1	24.9	113,084	23,043	215
1978	116,916	18,161	1,954	137,031	85.3	13.3	1.4	15.6	60.9	23.5	115,984	20,837	210
1977	108,130	15,341	1,862	125,333	86.3	12.2	1.5	16.0	61.8	22.2	109,416	15,728	188
1976	112,008	14,308	1,684	128,000	87.5	11.2	1.3	18.3	62.5	19.2	114,268	13,529	203
1975	100,360	15,171	1,111	116,642	86.0	13.0	1.0	19.0	61.6	19.4	105,794	10,593	255
1974	126,608	16,962	2,150	145,720	86.9	11.6	1.5	24.3	56.0	19.7			200
1973	132,747	16,163	1,889	150,799	88.0	10.7	1.3	26.4	55.2	18.4			177
1972	117,698	13,979	1,564	133,241	88.3	10.5	1.2	26.2	56.0	17.8			136
1971	107,007	12,173	1,263	120,443	88.8	10.1	1.1	29.5	53.1	17.4	NOT AVAILABLE		146
1970	117,411	12,824	1,279	131,514	89.3	9.7	1.0	36.5	48.2	15.3			162
1969	124,832	14,861	1,569	141,262	88.4	10.5	1.1	43.1	42.6	14.3			172

Table 28

Raw Steel Production by States

(Thousands of net tons)

States	1983	1982	1981	1980	1979
New York	1,305	1,419	3,147	2,675	4,035
Pennsylvania	13,000	10,905	24,066	23,517	28,213
R.I., Conn., N.J., Del., Md.	3,985	4,063	5,777	5,161	6,638
Va., W. Va., Ga., Fla., N.C., S.C., La.	5,277	4,921	6,497	6,066	6,788
Kentucky	1,841	1,422	2,397	2,141	2,438
Ala., Tenn., Miss., Ark.	1,470	1,506	3,585	3,452	4,487
Ohio	14,586	12,181	18,096	16,100	21,082
Indiania	20,202	16,499	22,652	19,820	22,912
Illinois	5,410	5,091	9,105	8,961	11,729
Michigan	7,262	6,075	8,943	7,877	10,922
Texas	4,696	5,277	+	+	+
Minn., Mo., Okla., Nebr., Iowa	1,287	866	9,068	8,642	8,260
Ariz., Col., Utah, Wash., Ore., Hawaii	3,161	3,035	4,842	4,795	5,165
California	1,132	1,317	2,653	2,628	3,672
Total	**84,615**	**74,577**	**120,828**	**111,835**	**136,341**

+Included with Minn., Mo., Okla., Nebr., Iowa.

Table 29

Monthly and Quarterly Raw Steel Production and Capability Utilitzation

(Thousands of net tons)

Periods	1983		1982		1981		1980		1979	
	Net Tons	Capability Utilization* %	Net Tons	Capability Utilization* %	Net Tons	Capability Utilization* %	Net Tons	Capability Utilization* %	Net Tons	Capability Utilization* %
January	5,570	43.4	7,737	59.3	10,590	79.9	10,701	82.7	11,105	83.5
February	5,676	49.0	7,178	60.9	10,028	83.7	10,332	85.3	10,562	87.9
March	7,127	55.5	8,049	61.7	11,745	88.6	11,439	88.4	12,576	94.5
1st Quarter	18,382	49.3	22,970	60.7	32,363	84.1	32,472	85.4	34,227	88.6
April	7,292	58.9	7,006	55.2	11,243	87.7	10,658	83.0	12,196	93.4
May	7,412	57.9	6,678	50.9	11,423	86.2	9,226	69.6	12,709	94.8
June	6,993	56.5	6,050	47.7	10,452	81.5	7,501	58.4	12,230	93.7
2nd Quarter	21,726	57.8	19,711	51.2	33,068	85.0	27,385	70.3	37,213	94.0
First 6 months	40,109	53.6	42,681	55.9	65,431	84.5	59,857	77.8	71,440	91.0
July	6,921	54.3	5,719	43.8	10,160	77.6	6,796	53.1	11,821	89.9
August	7,020	55.1	5,538	42.4	10,120	77.3	7,018	54.4	11,309	86.0
September	7,134	57.8	5,299	41.9	9,618	75.9	7,767	62.6	10,541	82.8
3rd Quarter	21,076	55.7	16,555	42.7	29,898	76.9	21,581	56.8	33,659	86.2
9 months	61,386	54.5	58,367	50.7	95,329	82.0	81,438	70.8	105,099	89.6
October	7,692	60.2	5,262	40.2	9,003	68.7	9,442	72.2	10,810	84.4
November	7,263	58.7	4,546	35.9	7,962	62.8	10,057	79.5	9,997	80.6
December	6,991	54.7	4,456	34.0	7,671	58.6	10,180	77.8	9,996	78.0
4th Quarter	21,946	57.9	14,264	36.7	24,636	63.4	29,679	76.5	30,803	81.0
Second 6 Months	43,022	56.8	30,820	39.7	54,534	70.2	51,260	66.8	64,462	83.6
Year†	**84,615**	**56.2**	**74,577**	**48.4**	**120,828**	**78.3**	**111,835**	**72.8**	**136,341**	**87.8**

*Raw steel production capability varies in each calendar quarter and aggregated 155.3, 153.7, 154.3, 154.0 and 150.6 million net tons for the full years 1979, 1980, 1981, 1982 and 1983 respectively.

†Revised totals include adjustments not shown in monthly figures.

PIG IRON AND FERROALLOYS

Table 30

Blast Furnace Production

Including Direct Castings and Ferroalloys
(Thousands of net tons)

Year	Basic	Bessemer	Low Phosphorus	Foundry	Malleable	All Other	Total
1983	48,132	—	27	130	417	—	48,706
1982	42,604	—	56	239	377	33	43,309
1981	71,166	56	132	1,221	929	66	73,570
1980	66,964	39	72	713	799	134	68,721
1979	84,047	12	44	1,591	1,003	306	87,003
1978	84,497	295	110	1,856	471	450	87,679
1977	78,198	254	122	1,610	690	454	81,328
1976	82,894	1,150	112	1,489	800	425	86,870
1975	75,911	1,087	140	1,321	814	650	79,923
1974	91,193	1,100	106	1,528	1,382	600	95,909

Table 31

Pig Iron Consumption and Sales

(Thousands of net tons)

Year	Steelmaking	Other Than Steelmaking*	Total
1983	45,783	868	**46,651**
1982	42,013	777	**42,790**
1981	70,858	3,055	**73,913**
1980	66,111	2,794	**68,905**
1979	83,307	3,984	**87,291**
1978	83,571	4,148	**87,719**
1977	77,141	3,711	**80,852**
1976	82,039	4,332	**86,361**
1975	72,837	4,115	**76,952**
1974	90,500	5,085	**95,585**

*Includes sales for use outside the steel industry.

Table 32

Pig Iron Shipments Other than for Own Use

(Thousands of net tons)

Year	Basic	Bess. & Low. Phos.	Foundry	Malleable and Silvery	Total	Incl. in Total	
						Hot Metal	Cold Metal
1983	169	38	—	451	658	405	253
1982	154	71	20	323	568	300	268
1981	337	119	109	663	1,228	853	375
1980	301	183	125	597	1,206	648	558
1979	538	279	227	811	1,855	1,152	703
1978	677	413	210	799	2,099	1,287	812
1977	663	533	173	737	2,106	1,144	962
1976	530	439	356	836	2,161	1,160	1,001
1975	488	379	291	752	1,910	981	929
1974	743	487	430	1,223	2,883	1,413	1,470

Table 33

Production of Ferroalloys

(Thousands of net tons)

	1983[P]	1982[R]	1981	1980	1979
Ferromanganese	78	119	193	189	317
Silicomanganese	54	69	173	188	165
Ferrosilicon (a)	447	376	680	686	857
Ferrochrome	41	92	165	184	247
Other Chrome (b)	]	27	62	54	47
Other Ferroalloys (c)	165	155	220	246	242
Total	**785**	**838**	**1,493**	**1,547**	**1,875**

Table 34

Ferroalloy Imports for Consumption

(Thousands of net tons)

	1983[P]	1982[R]	1981	1980	1979
Ferromanganese	347	493	671	609	821
Silicomanganese	140	62	129	75	95
Ferrosilicon (a)	187	102	184	92	141
Ferrochrome	280	141	428	297	242
Other Chrome (b)	5	8	15	9	4
Other Ferroalloys (c)	45	37	88	67	78
Total	**1,004**	**843**	**1,515**	**1,149**	**1,381**

(a) Ferrosilicon includes Silicon Metal.
(b) Other Chrome includes Ferrochrome—silicon and chromium metal.
(c) Other Ferroalloys includes Ferrophosphorus and all other ferroalloys not listed.
Source: Compiled by The Ferroalloys Association from Bureau of Mines and Department of Census reports.

Table 35

Materials Used by Blast Furnaces in Manufacture of Iron (Pig and Molten) in 1983

Products	Thousands of net tons	Net tons per ton of iron produced
Ore:		
Iron ore (incl. manganiferous and block)	2,372	0.049
Manganese ore (incl. ferruginous manganese)	125	0.002
Agglomerated products (sinter, pellets, etc.)	72,624 (a)	1.491
Total ores and agglomerated products consumed	75,121	1.542
Less flue dust and sludge produced	1,360	0.028
Net—Ores & agglomerated products consumed	73,761	1.514
Scrap:		
Total scrap consumed	2,846	0.058
Less produced at blast furnaces & auxiliary units	340	0.007
Net—Scrap consumed	2,506	0.051
Mill cinder, roll scale, etc.	1,999	0.041
Limestone, dolomite, other flux materials (b)	7,487	0.154
Coke:		
Total coke consumed in blast furnaces	27,166	0.557
Less coke breeze (dust) recovered	898	0.018
Net—Coke consumed	26,268	0.539

(a) Includes production at or near mine site and at other locations.
(b) Based on total limestone and dolomite charged directly into blast furnaces, plus tonnage consumed in the production of agglomerates.

BASIC MATERIALS USED IN THE PRODUCTION OF IRON AND STEEL PRODUCTS

Table 36

Consumption of Coal

(Thousands of net tons)

Year	In Production of		Other Purposes	Total
	Coke	Steam*		
1983	30,549	2,280	153	32,982
1982	34,130	2,297	179	36,606
1981	53,565	2,675	293	56,533
1980	58,446	2,602	409	61,457
1979	69,437	2,006	245	71,688
1978	64,562	2,633	285	67,480
1977	69,806	3,048	281	73,135
1976	77,027	2,748	296	80,071
1975	75,515	2,737	364	78,616
1974	81,567	3,426	534	85,527

* Includes coal consumed in generating electric power.

Table 37

Consumption of Fluxes

(Thousands of net tons)

Use	Fluorspar	Limestone	Lime	Other Fluxes	Total
1983					
In agglomerated products	...	4,304	...	...	4,304
In blast furnaces	...	3,183	...	...	3,183
In steelmaking furnaces:					
Open hearth	13	158	83	142	396
Basic oxygen process	130	432	3,357	418	4,337
Electric	51	113	896	92	1,152
Total	**194**	**8,190**	**4,336**	**652**	**13,372**
1982	268	7,296	4,189	520	12,273
1981	428	13,366	7,340	737	21,871
1980	414	13,545	6,446	780	21,185
1979	562	18,522	8,190	1,165	28,439
1978	570	18,552	8,300	1,169	28,591

Table 38

Production, Receipts, Consumption and Shipments of Coke

(Thousands of net tons)

	1983	1982[R]	1981	1980	1979
Production:					
Metallurgical	22,466	24,518	37,627	41,845	48,221
Other coke	244	227	490	283	288
Total Production	22,710	24,745	38,117	42,128	48,509
Receipts, incl. imports	4,161	2,704	5,614	4,103	7,972
Total Production and Receipts	**26,871**	**27,449**	**43,731**	**46,231**	**56,481**
Consumption:					
Blast furnaces	26,268	23,322	40,451	39,146	50,008
Foundries	...	73	...	49	119
Other	147	49	95	81	112
Total Consumption	26,415	23,444	40,546	39,276	50,239
Shipments to outside companies	3,038	1,042	2,833	4,232	3,487
Total Consumption and Shipments	**29,453**	**24,486**	**43,379**	**43,508**	**53,726**

Table 39

Iron Ore Receipts and Consumption
1983

(Thousands of net tons)

	Original Source of Iron Ore						
	United States			Canada			
	Great Lakes (a)	Southern (b)	Western (c)	Great Lakes (d)	Eastern (e)	All Other Foreign Countries	Total Iron Ore
Receipts at plants	43,561	835	1,036	30	10,936	7,663	64,060
Consumption in:							
Blast furnaces	42,135	770	1,356	67	9,329	3,233	56,891*
Steel producing furnaces	68	—	6	—	30	144	248
Agglomerating plants (f)	2,140	—	342	69	3,330	5,289	11,171
Total Consumption	**44,343**	**770**	**1,705**	**136**	**12,689**	**8,666**	**68,310**

(a) Michigan, Minnesota, Wisconsin.
(b) Florida, Alabama, Georgia, Missouri, New Mexico, Tennessee, Texas, Virginia.
(c) California, Nevada, Utah, Wyoming, Colorado, Montana, Washington.
(d) Ontario.
(e) Quebec, Newfoundland, Nova Scotia, Labrador, New Brunswick, Prince Edward Island.
(f) Represents plants at other than mine locations.
*Includes 54,519,000 N.T. of agglomerates produced at or near mine site.
May not add due to rounding.

Table 40

Imports of Iron Ore By Countries of Origin

(Thousand gross tons)

Country	1983[P]	1982[R]	1981	1980	1979	1978	1977	1976	1975	1974
Australia	—	—	—	*	183	264	305	617	803	638
Brazil	1,276	972	1,738	1,995	3,095	3,979	2,243	5,388	7,526	6,572
Canada	8,832	9,281	18,845	17,311	22,602	19,236	25,283	24,962	19,111	19,702
Chile	—	47	342	322	245	390	566	608	931	296
Liberia	1,732	2,399	2,160	1,590	2,190	2,170	1,791	2,153	2,496	2,730
Peru	*	35	77	193	456	818	1,021	716	1,551	1,810
Sweden	68	71	87	33	171	256	154	441	182	335
Venezuela	1,414	1,643	5,071	3,602	4,564	6,083	6,179	9,001	13,137	15,378
Other	6	53	8	12	270	420	363	504	1,005	568
Total	**13,328**	**14,501**	**28,328**	**25,058**	**33,776**	**33,616**	**37,905**	**44,390**	**46,742**	**48,029**

*Less than 500 tons.
Source: Bureau of Mines

Table 41

Iron Ore Shipments Destined for Great Lakes

(Thousands of gross tons)

Loading Docks	1983	1982	1981	1980	1979	1978	1977	1976	1975	1974
Superior	8,668	7,958	10,669	10,146	13,674	12,515	7,742	6,145	6,609	10,004
Duluth	6,560	5,982	13,071	13,263	15,039	13,568	10,687	14,050	14,385	17,832
Two Harbors	8,336	4,478	9,996	10,010	11,124	9,477	3,201	7,506	8,557	9,014
Marquette	3,509	1,934	5,342	5,721	5,332	6,003	3,990	5,436	4,588	2,867
Escanaba	7,366	5,319	8,743	9,724	11,816	11,434	7,890	10,061	9,383	8,220
Silver Bay	2,717	2,124	6,351	4,399	8,267	9,610	4,449	9,694	8,971	10,399
Taconite Harbor	3,861	3,624	7,643	6,097	9,467	8,752	3,501	10,254	10,114	10,456
Michipicoten (Canada)	...	...	...	...	...	...	...	74	30	81
Depot Harbor (Canada)	...	...	...	...	227	675	573	622	662	686
Little Current (Canada)	...	...	...	...	...	306	608	375	496	582
Picton (Canada)	...	...	...	...	...	43	598	451	272	392
Thunder Bay (Canada)	1,397	795	1,212	2,679	3,801	4,395	4,695	4,127	3,976	4,889
Pointe Noire (Canada)	4,670	2,477	4,887	4,319	5,149	3,608	5,108	5,053	2,989	3,915
Port Cartier (Canada)	...	1,126	2,084	1,716	2,685	2,592	3,842	4,834	2,968	1,921
Seven Islands (Canada)	4,068	2,635	4,891	4,555	5,473	5,918	10,166	7,965	6,267	6,320
Total	**51,152**	**38,452**	**74,889**	**72,629**	**92,054**	**88,896**	**67,050**	**86,647**	**80,267**	**87,578**

Source: American Iron Ore Association

Table 42

Agglomerated Products

(Thousands of net tons)

	1983	1982	1981	1980	1979
Materials Used:					
Ore fines and concentrates	56,856	49,441	112,006	88,056	113,048
Flue dust and sludge	980	900	1,699	2,065	2,509
Scale	2,881	2,455	3,683	3,464	4,235
Coke breeze	885	984	1,434	1,416	1,892
Coal	346	255	341	171	130
Cinder and slag	1,621	1,800	2,825	2,206	2,789
Limestone and dolomite	4,304	3,908	6,368	6,109	8,210
Other	1,445	1,419	1,500	1,417	2,303
Total Materials Used	**69,318**	**61,162**	**129,856**	**104,904**	**135,116**
Produced From Above Materials:					
Pellets	35,543	31,917	68,381	61,305	79,996
Sinter, briquettes, nodules and other	18,094	18,093	28,956	27,886	35,969
Total Production	**53,637**	**50,010**	**97,337**	**89,131**	**115,965**
Receipts of Foreign Production:	**7,451**	**7,195**	**15,215**	**12,743**	**19,283**
Consumed In:					
Blast Furnaces:					
Pellets	54,297	47,760	80,864	72,379	90,684
Sinter, briquettes, nodules and other	18,327	17,638	27,445	27,899	35,898
Total	**72,624**	**65,398**	**108,309**	**100,278**	**126,582**
Steelmaking Furnaces—					
Pellets	45	115	157	183	213
Sinter, briquettes, nodules and other	14	4	4	2	16
Total	**59**	**119**	**161**	**185**	**229**
Total Consumption	**72,683**	**65,517**	**108,470**	**100,463**	**126,811**

Table 43

Scrap—Stocks, Production, Receipts, and Consumption By Manufacturers of Pig Iron, Raw Steel and Castings

(Thousands of net tons)

Year	Stocks On Hand Beginning of Year	Produced	Received*	Consumed	Shipped, Transferred or Otherwise Disposed	Stocks On Hand End of Year
1983[P]	5,475	23,614	27,684	48,008	3,811	4,954
1982[R]	7,130	23,518	22,503	43,698	3,978	5,475
1981	6,943	38,424	35,270	68,343	5,164	7,130
1980	7,427	36,885	34,676	66,557	5,488	6,943
1979	6,930	45,376	37,955	77,190	5,644	7,427
1978	7,684	44,920	35,651	76,294	5,031	6,930
1977	8,589	42,412	31,765	69,301	5,781	7,684
1976	7,581	43,464	31,860	68,427	5,889	8,589
1975	6,940	40,060	27,919	62,836	4,502	7,581
1974	5,973	47,421	40,180	81,074	5,560	6,940

Source: Bureau of mines.
*Includes scrap received from other plants within the same company.

Table 44

Scrap Consumption by Grade

(Thousands of net tons)

	1983[P]	1982[R]
Carbon steel:		
Low phosphorous plate and punchings	324	263
Cut structurals and plate	1,427	1,328
No. 1 heavy melting steel	15,291	13,895
No. 2 heavy melting steel	2,387	2,252
No. 1 and electric furnace bundles	7,559	5,932
No. 2 and all other bundles	980	1,072
Turnings and borings	834	995
Slag scrap (Fe content)	2,978	2,913
Shredded or fragmentized	2,342	2,126
No. 1 busheling	1,273	986
All other carbon steel scrap	7,215	6,987
Total Carbon Steel	42,610	38,749
Stainless steel	866	746
Alloy steel (excl. stainless)	1,641	1,030
Iron scrap	1,755	1,349
Other grades or types of scrap	1,641	1,825
Total Scrap	48,008	43,698

Source: Bureau of mines.
Data may not add to totals due to rounding.

Table 45

Consumption of Scrap and Pig Iron By Types of Furnaces

(Thousands of net tons)

Year	Type of Furnace	Consumed		
		Scrap	Pig Iron	Total
1983[P]	Open hearth	3,307	3,934	7,241
	Basic oxygen process	15,907	43,140	59,047
	Electric	24,727	208	24,935
	Cupola	6	100	106
	Direct castings	—	534	534
	Blast	3,022	—	3,022
	Other (Incl. air furnace)	585	75	660
	Total	**47,554**	**47,992**	**95,546**
1982[R]	Open hearth	3,554	3,632	7,186
	Basic oxygen process	14,059	38,553	52,612
	Electric	22,766	210	22,976
	Cupola	37	128	165
	Direct castings	—	647	647
	Blast	2,648	—	2,648
	Other (Incl. air furnace)	634	111	745
	Total	**43,698**	**43,281**	**86,979**
1981	Open hearth	7,450	8,862	16,312
	Basic oxygen process	23,278	62,162	85,440
	Electric	32,467	260	32,727
	Cupola	37	175	212
	Direct castings	—	1,344	1,344
	Blast	4,046	—	4,046
	Other (Incl. air furnace)	1,065	208	1,273
	Total	**68,343**	**73,011**	**141,354**
1980	Open hearth	7,398	8,600	15,998
	Basic oxygen process	21,859	56,414	78,273
	Electric	32,673	529	33,202
	Cupola	114	117	231
	Direct castings	—	1,188	1,188
	Blast*	3,651	—	3,651
	Other (Incl. air furnace)	862	266	1,128
	Total	**66,557**	**67,114**	**133,671**
1979	Open hearth	10,406	12,860	23,266
	Basic oxygen process	26,496	68,526	95,022
	Electric	34,813	559	35,372
	Cupola	281	201	482
	Direct castings	—	2,239	2,239
	Blast	4,117	—	4,117
	Other (Incl. air furnace)	1,077	357	1,434
	Total	**77,190**	**84,742**	**161,932**

Source: Bureau of Mines
* Includes slag scrap

Table 46

Consumption of Electric Power

(Millions of kilowatt hours)

Year	Generated	Purchased	Total
1983	5,922	36,473	42,395
1982	6,664	34,103	40,767
1981	8,511	48,997	57,508
1980	8,744	43,585	52,329
1979	9,283	50,693	59,976

Table 47

Consumption of Oxygen

(Millions of cubic feet in gaseous form)

	1983	1982	1981	1980	1979
Purchased	145,325	132,659	204,081	192,264	244,926
Produced (a)	12,415	13,686	23,615	22,182	26,109
Total	157,740	146,345	227,696	214,446	271,035
Used in:					
Conditioning	9,064	8,106	14,143	13,161	17,235
Scrap preparation	930	922	1,298	1,635	2,090
Other burning and welding	3,146	3,065	5,430	4,273	5,249
Blast furnaces	16,223	16,057	24,278	23,007	35,058
Steelmaking:					
Open hearth	8,566	9,478	21,701	20,626	28,894
Basic oxygen process	99,608	89,809	139,549	130,906	160,602
Electric	9,682	8,453	13,001	11,485	12,915
Total Steelmaking	117,856	107,740	174,251	163,017	202,411
Maintenance and construction	1,098	1,236	1,074	866	1,510
All other	9,423	9,219	7,213	8,487	7,482
Total	**157,740**	**146,345**	**227,696**	**214,446**	**271,035**

(a) Produced on companies owned or leased facilities.

NOTE: Oxygen consumed in liquid form was converted to its gaseous equivalent in these statistics.

Table 48

Consumption of Fuels

Year	Purpose					
	Blast Furnace Area		Steel Melting Furnaces	Heating and Annealing Furnaces	Other	Total
	Blast Furnaces	Other Uses				
			Fuel Oil (Thousands of gallons)			
1983	123,709	16,212*	64,081	84,436	142,637	431,075
1982	111,971	9,509*	59,484	94,393	99,122	374,479
1981	277,997	4,045*	114,536	125,295	126,311	648,184
1980	298,647	10,768*	101,923	151,777	137,230	700,345
1979	572,945	32,151*	211,603	383,839	228,599	1,429,137
			Tar and Pitch (Thousands of gallons)			
1983	7,243	...	11,831	...	969	20,043
1982	21,317	...	19,758	...	3,485	44,560
1981	27,753	...	14,196	12,687	4,546	59,182
1980	41,328	...	49,835	...	1,759	92,922
1979	60,208	...	77,221	...	1,251	138,680
			Liquid Petroleum Gas (Thousands of gallons)			
1983	†	†	†	558	1,624	2,182
1982	†	†	†	1,300	3,096	4,396
1981	†	†	†	2,606	3,720	6,326
1980	†	†	†	2,506	3,388	5,894
1979	†	†	†	6,545	7,381	13,926

* Includes coke oven underfiring.

† Included with "Other."

Table 48 *(continued)*
Consumption of Fuels

Year	Purpose					
	Blast Furnace Area		Steel Melting Furnaces	Heating and Annealing Furnaces	Other	Total
	Blast Furnaces	Other Uses				
	Natural Gas (Millions of cubic feet—based on 1,000 B.T.U. per cubic foot)					
1983	19,061	14,700*	19,310	216,262	109,718	379,051
1982[R]	19,160	22,150*	20,530	219,371	130,134	411,345
1981	26,398	43,689*	34,936	339,527	168,665	613,215
1980	20,962	30,697*	32,481	317,432	158,740	560,312
1979	23,930	35,018*	38,720	368,538	177,486	643,692
	Coke Oven Gas (Millions of cubic feet—based on 500 B.T.U. per cubic foot)					
1983	8,463	150,466*	28	103,950	75,972	338,879
1982[R]	7,106	168,798*	1,796	123,357	109,613	410,670
1981	10,990	247,417*	4,725	195,210	163,094	621,436
1980	14,302	268,114*	5,885	208,499	174,599	671,399
1979	15,980	292,238*	5,004	254,963	197,426	765,611
	Blast Furnace Gas (Millions of cubic feet—based on 95 B.T.U. per cubic foot)					
1983	844,815	602,573*	1,386	25,139	720,452	2,194,365
1982[R]	796,165	576,485*	6,173	32,651	724,956	2,136,430
1981	1,238,051	886,145*	10,200	66,265	1,135,731	3,336,392
1980	1,141,893	727,414	10,051	62,506	1,224,859	3,166,723
1979	1,516,885	882,764	†	193,518	1,670,939	4,264,106

* Includes coke oven underfiring.

* Includes 247,958 coke oven underfiring in 1979, 214,946 in 1980, 200,911 in 1981, 128,211 in 1982 and 110,782 in 1983.

* Includes coke oven underfiring.
† Included with "Other".

Table 49

*Imports for Consumption of Manganese Ore by Countries of Origin (35 Percent or More Mn)**

(Mn content—Net tons)

Countries	1983	1982	1981	1980	1979	1978	1977	1976	1975	1974
Australia	15,118	18,842	47,842	106,043	55,316	32,598	13,834	117,367	86,542	98,142
Brazil	39,112	2,962	38,909	33,648	51,660	52,095	111,639	161,108	307,367	221,999
Gabon	85,509	23,156	90,629	79,858	48,119	126,962	245,221	269,698	244,795	150,116
Ghana	...	...	...	...	...	...	...	...	...	4,531
Mexico	25,598	1,492	25,813	22,384	2,060	18,355	34,882	18,485	23,172	16,431
Morocco	20	4,996	11	2,843	10,719	14,522	17,070	18,687		27,505
Republic of South Africa	12,703	57,872	97,536	86,373	41,475	NA	16,662	60,963	92,210	32,909
Zaire						13,231	14,700	2,937	11,444	25,291
Other Countries		1,734			22,460	9,472				
Total	178,060	111,054	300,740	331,149	231,809	267,235	454,228	649,245	765,530	576,924

*Comprises ore received during the year for immediate consumption plus material withdrawn from bonded warehouses; excludes imports for manufacture in bond and export.

Source: Bureau of Mines, Department of Interior.

CANADIAN STATISTICS

Table 50

Income, Dividends, Return on Sales and Stockholders' Equity

(Millions of Canadian dollars)

(Reported by companies comprising 80% of Canadian Raw Steel Production)

	1983	1982
Statement of Income:		
Revenues:		
Sales (Net billing value of products shipped and other services)	$4,691.3	$4,671.7
Interest, dividends and other income	30.8	25.8
Total Revenue	4,722.1	4,697.5
Costs Applied to Billings and Other Services:		
Employment Costs:	1,183.8	1,259.2
Materials, supplies, freight and other services, etc.	3,132.3	3,110.6
Depreciation, depletion and amortization	245.5	242.7
Interest and charges on debt	172.6	153.0
Taxes other than income	23.3	31.1
Taxes on income	(41.8)	(81.7)
Loss or (gain) on discontinued operations and sales of assets (a)	...	5.5
Total Costs	4,715.7	4,720.4
Net Income	$ 6.4	$ (22.9)
Per Cent Return on Sales	0.1	(0.5)
Percent Return on Stockholders' Equity (b)	0.2	N.A.
Cash Dividends Declared	$ 140.8	$ 162.9
Employees	42,300	N.A.

(a) Includes only pretax (gains) or losses which were separately disclosed in annual financial statements to stockholders.

(b) Based on stockholders' equity as of Dec. 31 of the prior year.

Totals do not necessarily add due to rounding.

Table 51

Balance Sheet

(Millions of Canadian dollars)

(Reported by companies comprising 80% of Canadian Raw Steel Production)

Assets	1983	1982
Current Assets:		
Cash and marketable securities	$ 458.3	$ 250.2
Receivables, less allowances for doubtful accounts	693.2	539.3
Inventories	1,528.5	1,595.0
Other Current Assets	10.8	12.0
Total Current Assets	**2,690.8**	**2,396.6**
Miscellaneous investments and other assets	307.8	33.9
Fixed Assets:		
Property, plant and equipment	6,733.2	6,651.9
Less—Depreciation, depletion and amortization	2,801.4	2,573.7
Net Fixed Assets	3,931.8	4,078.2
Deferred charges	13.4	14.7
Total Assets	**$6,943.8**	**$6,823.3**
Liabilities and Stockholders' Equity		
Current Liabilities:		
Accrued taxes, including income taxes	$ 97.6	$ 57.1
Long-term debt maturing within one year	33.7	29.1
All other current liabilities	857.7	627.2
Total Current Liabilities	**989.0**	**713.4**
Long-term debt less amount maturing within one year		
Other long-term liabilities and reserves	860.6	924.5
Stockholders' Equity:		
Preferred stock	880.3	941.4
Common stock	549.8	379.4
Income reinvested in business	2,216.2	2,386.2
Total Stockholders' Equity	**$3,646.3**	**$3,707.0**
Total Liabilities and Stockholders' Equity	**$6,943.8**	**$6,823.3**

Table 52

Production of Pig Iron and Ferroalloys

(Net tons)

Year	Pig Iron			Ferroalloys	Total
	Basic	All Other	Total		
1983	N/A	N/A	9,442,986	195,700	9,638,686
1982	8,226,969	591,595	8,818,564	203,378	9,021,942
1981	9,929,454	810,804	10,740,258	310,685	11,050,943
1980	11,040,417	966,650	12,007,067	318,901	12,325,968
1979	11,464,845	556,588	12,021,433	192,462	12,213,895
1978	10,486,271	909,717	11,395,988	265,042	11,661,030
1977	10,030,103	619,244	10,649,347	213,140	10,862,487
1976	10,104,675	698,554	10,803,229	247,997	11,051,226
1975	9,466,064	620,079	10,086,143	176,359	10,262,502
1974	9,564,449	821,857	10,386,306	273,306	10,659,612

Source: Statistics Canada.

Table 53

Materials Consumed by Blast Furnaces in the Production of Pig Iron

Year	Net Tons			Consumption per Ton of Pig Iron		
	Ore, Cinder, etc.	Limestone	Coke	Ore, Cinder, etc.	Limestone	Coke
1983	14,697,218	215,006	4,414,226	1.556	0.023	0.467
1982	13,610,281	193,297	4,139,690	1.543	0.022	0.469
1981	15,817,001	259,426	4,552,753	1.473	0.024	0.424
1980	17,372,626	345,971	5,343,851	1.447	0.029	0.445
1979	18,601,580	469,846	5,458,170	1.547	0.039	0.454
1978	17,215,864	430,699	4,925,123	1.511	0.038	0.432
1977	15,490,321	361,054	4,798,210	1.455	0.034	0.451
1976	15,098,856	818,426	5,131,274	1.398	0.076	0.475
1975	14,161,402	963,125	4,951,237	1.404	0.095	0.491
1974	14,644,037	897,380	5,027,821	1.410	0.086	0.484

Source: Statistics Canada.

Table 54

Raw Steel Production

(Net tons)

Year	Open Hearth	Basic Oxygen Process	Electric	Total	Steel for Castings* Incl. in Total	Alloy Steel Incl. in Total
1983	1,014,966	9,364,629	3,650,893	14,030,488	114,752	1,023,272
1982	1,814,266	7,989,644	3,161,669	12,965,579	120,257	1,137,866[R]
1981	2,203,771	9,567,252	4,363,641	16,134,664	191,747	1,829,032
1980	3,583,430	9,669,217	4,275,473	17,528,120	239,495	2,231,062
1979	3,632,219	10,048,152	4,042,636	17,723,007	246,203	2,458,253
1978	3,338,969	9,274,452	3,809,307	16,422,728	187,936	2,039,373
1977	3,174,390	8,766,492	3,084,991	15,025,873	164,353	1,864,649
1976	3,275,098	8,758,757	2,615,367	14,649,222	183,563	1,754,172
1975	3,394,143	8,052,297	2,911,028	14,357,468	239,312	1,437,835
1974	3,775,659	8,106,525	3,135,094	15,017,278	221,838	1,686,879

*Includes only that portion of the steel for castings which was produced in foundries operated by companies producing steel ingots.

Source: Statistics Canada.

Table 55

Net Shipments of Rolled Steel Products

(Net tons)

Products	1983	1982	1981	1980	1979
Ingots and semifinished shapes	824,174	578,736	1,098,708	897,005	551,343
Rails and heavy structural shapes*	505,527	454,257	925,608	862,691	380,919
Wire rods	1,129,709	989,851	1,088,166	1,363,294	1,257,889
Structural shapes intermediate**	287,179	238,106	391,404	458,798	919,602
Bar sized shapes	140,442	127,372	182,561	177,693	230,484
Concrete reinforcing bars	580,257	598,187	750,665	843,294	584,086
Other hot rolled bars	937,983	830,121	1,126,657	1,105,299	1,343,722
Tie plates and track material	55,080	63,033	74,934	87,256	79,021
Plates (Incl. plates for pipe & tube)	1,118,416	1,237,498	1,987,162	1,954,672	1,874,681
Hot rolled sheets & strip	2,328,771	2,203,371	2,506,978	2,557,134	2,818,510
Cold finished bars	99,227	75,258	104,763	108,224	130,704
Cold reduced sheets and strip, cold rolled other	1,966,385	1,884,419	1,941,128	2,037,874	2,134,726
Galvanized sheets	1,046,692	1,025,365	1,047,999	1,099,256	1,175,237
Total net shipments	**11,020,342**	**10,305,574**	**13,226,733**	**13,552,490**	**13,480,924**

Source: Statistics Canada

*Prior to 1980, included only rails.

**Prior to 1980, included structural shapes and piling.

Table 55 *(continued)*

Net Shipments of Rolled Steel Products

(Net tons)

Products	1978	1977	1976	1975	1974
Ingots and semifinished shapes	671,919	640,276	490,926	399,575	500,995
Rails and heavy structural shapes*	290,724	350,446	388,751	371,546	316,981
Wire rods	1,100,126	863,872	804,085	630,822	858,111
Structural shapes intermediate**	891,647	668,854	563,104	600,274	654,242
Bar sized shapes	215,002	156,311	119,354	126,212	150,182
Concrete reinforcing bars	633,338	545,742	534,280	611,461	772,052
Other hot rolled bars	1,260,283	1,098,700	1,011,897	950,446	1,073,099
Tie plates and track material	70,312	75,072	80,420	87,221	77,818
Plates (Incl. plates for pipe & tube)	1,636,158	1,253,259	1,163,917	1,605,522	1,412,697
Hot rolled sheets & strip	2,728,914	2,691,196	2,700,730	2,458,085	2,504,116
Cold finished bars	108,942	93,973	84,046	88,044	102,812
Cold reduced sheets and strip, cold rolled other	2,107,878	1,955,483	1,945,350	1,678,624	2,044,330
Galvanized sheets	1,173,534	983,273	911,542	844,265	971,791
Total net shipments	**12,888,777**	**11,376,457**	**10,798,402**	**10,452,097**	**11,439,226**

Source: Statistics Canada

*Prior to 1980, included only rails.

**Prior to 1980, included structural shapes and piling.

Table 56

Imports of Iron and Steel Products

(Net tons)

Products	1983	1982	1981	1980	1979
Steel Mill Products:					
Ingots, blooms, billets, etc.	40,962	17,978	188,521	115,347	198,681
Wire rods	151,243	124,403	215,727	117,388	183,251
Structural shapes (plain 3" and over)	129,600	102,020	343,732	197,630	263,138
Sheet piling	10,570	8,387	18,437	13,784	17,582
Plates	151,775	225,364	709,810	252,833	463,675
Rails and track accessories	22,109	34,981	46,037	32,723	22,744
Concrete reinforcing bars	10,979	11,571	16,255	8,970	24,845
Bar shapes under 3"	35,632	18,030	30,929	10,336	17,173
Bars—Hot rolled—Carbon	58,068	36,565	76,505	37,510	67,329
—Alloy	71,526	56,949	47,437	27,249	33,337
—Cold finished	11,754	8,670	15,494	13,644	18,716
Pipe and tubing	238,641	273,923	400,335	355,049	311,898
Wire drawn	46,969	34,789	49,032	38,830	67,129
Barbed wire	1,858	2,360	2,396	1,272	5,087
Wire nails	15,372	11,918	20,535	13,294	19,147
Tin plate	2,425	4,835	4,042	2,132	1,647
Terne plate	20,332	14,050	15,932	13,052	20,674
Sheets—Hot rolled	143,322	91,448	665,865	152,343	289,771
—Cold rolled	120,439	99,248	211,269	75,695	151,936
Sheet & strip (Coated, incl. galvanized)	108,812	101,102	163,338	65,840	147,889
All other sheet and strip	27,019	42,333	78,381	51,173	40,202
Total Steel Mill Products	**1,419,407**	**1,320,924**	**3,329,009**	**1,596,094**	**2,365,851**
Other Steel Products:					
Steel castings and forgings	12,054	13,044	15,273	19,189	17,900
Bars and rods, fabricated	3,042	3,796	5,036	4,196	3,831
Plates, flanged and dished	1,804	3,500	5,004	5,073	4,308
Plates, sheets and strip for saws	2,969	2,455	6,405	9,290	9,684
Plates, fabricated	3,521	5,344	12,707	7,761	8,497
Sheet and strip, fabricated	7,916	7,835	14,581	5,977	8,018
Structural shapes, fabricated	3,029	4,194	7,449	6,502	6,265
Wire strand	5,648	4,873	6,660	1,952	3,284
Wire rope	15,283	12,319	13,976	15,857	15,043
Grinding balls	12,608	8,373	17,709	8,851	10,168
Total Other Steel Products	**67,874**	**65,797**	**104,800**	**84,648**	**86,998**
Total Steel Products	**1,487,281**	**1,386,721**	**3,424,809**	**1,680,742**	**2,452,849**
Iron Products and Ferroalloys:					
Pig iron	5,353	2,708	7,677	2,287	10,927
Sponge iron	2,082	2,456	4,978	4,270	5,762
Castings and forgings	29,500	15,385	17,950	19,544	33,348
Pipe and tubes, cast iron	1,030	1,291	1,567	1,025	1,570
Ferroalloys	78,394	68,079	115,982	107,587	160,553
Total Iron Products and Ferroalloys	**116,361**	**89,919**	**148,154**	**134,713**	**212,160**
Grand Total	**1,603,642**	**1,476,640**	**3,572,963**	**1,815,455**	**2,665,009**

Source: Statistics Canada

Table 57

Exports of Iron and Steel Products

(Net tons)

Products	1983	1982	1981	1980	1979
Steel Mill Products:					
Ingots, blooms, billets, slabs, etc.	638,325	284,623	986,122	360,088	133,094
Wire rods	304,826	377,712	358,868	597,284	390,222
Structural shapes and piling	249,993	235,137	295,896	330,038	368,132
Plates	153,931	276,005	329,366	374,748	334,580
Rail and track accessories	35,902	61,915	212,402	279,652	256,953
Bars—Hot rolled	303,796	225,396	294,672	320,232	170,622
—Cold finished	19,406	15,035	16,527	9,323	5,073
Pipe and tubing	251,438	275,233	513,282	398,392	449,106
Wire, plain and coated	141,898	98,039	107,831	94,984	85,595
Wire nails	76,151	73,969	70,838	81,725	78,687
Sheets and strip	564,687	1,216,026	581,122	866,861	503,614
Sheets and strip—Galvanized	230,400	380,649	173,708	182,966	163,892
Total Steel Mill Products	**2,970,753**	**3,519,739**	**3,940,634**	**3,896,293**	**2,939,570**
Other Steel Products:					
Bars and rods, fabricated	9,908	6,269	4,069	7,563	7,453
Grinding balls	112	3,790	10,383	9,509	18,725
Castings and forgings	41,946	40,617	51,705	50,847	70,022
Wire rope and strand	5,245	8,087	9,959	9,611	7,137
Total Other Steel Products	**57,211**	**58,763**	**76,116**	**77,530**	**103,337**
Total Steel Products	**3,027,964**	**3,578,502**	**4,016,750**	**3,973,823**	**3,042,907**
Iron Products and Ferroalloys:					
Pig iron	383,913	535,304	514,074	619,886	281,666
Sponge iron	40,717	31,394	135,870	196,550	152,479
Iron castings	82,152	70,678	96,517	85,728	121,050
Pipe and tubes, cast iron	14,874	30,246	41,087	30,120	8,933
Ferroalloys	57,903	63,517	126,507	76,805	65,975
Total Iron Products and Ferroalloys	**579,559**	**731,739**	**914,055**	**1,009,089**	**530,103**
Grand Total	**3,607,523**	**4,310,241**	**4,930,805**	**4,982,912**	**3,673,010**

Source: Statistics Canada.

Table 58

Consumption of Coal

(Thousands of net tons)

Year	In production of Coke	Total
1983	6,228	6,229
1982	5,500	5,504
1981	6,933	6,937
1980	7,624	7,627
1979	7,688	7,688
1978	7,528	7,532
1977	7,268	7,269
1976	7,922	7,923
1975	7,698	7,700
1974	7,866	7,869

Table 59

Consumption of Coke

(Thousands of net tons)

Year	In Blast Furnaces*	Total
1983	4,635	4,636
1982	3,693	3,695
1981	4,283	4,285
1980	5,123	5,126
1979	4,859	4,863
1978	4,906	4,908
1977	4,838	4,839
1976	5,131	5,133
1975	4,953	4,997
1974	5,020	5,023

*Blast furnaces producing pig iron and ferroalloys.

Table 60

Consumption of Fuel Oil

(Thousands of gallons)

Year	In Melting Furnaces	In Heating and Annealing Furnaces	Other Purposes	Total
1983	55,577	19,329	5,802	80,708
1982	73,801	20,227	10,793	104,821
1981	148,967	17,692	7,421	174,080
1980	145,451	21,088	17,030	183,569
1979	162,770	25,779	5,647	194,196
1978	191,621	30,317	15,145	237,083
1977	158,013	30,111	8,356	196,480
1976	110,254	33,239	9,443	152,936
1975	98,691	28,132	12,813	139,636
1974	117,927	30,321	14,568	162,816

Table 61

Consumption of Fluxes in Steelmaking Furnaces

(Thousands of net tons)

Year	Fluorspar	Limestone	Lime	Other Fluxes	Total
1983	24	67	748	159	998
1982	26	88	678	132	924
1981	29	89	786	122	1,026
1980	38	112	764	121	1,035
1979	33	130	821	131	1,115
1978	37	107	801	147	1,092
1977	30	90	755	145	1,020
1976	26	113	810	99	1,048
1975	24	122	756	91	993
1974	26	94	740	80	940

Table 62

Consumption of Oxygen

(Millions of cubic feet)

	1983	1982	1981	1980	1979
Consumption By Uses:					
Conditioning	1,383	1,206	1,426	2,021	2,341
Scrap preparation	348	269	257	345	388
Other burning and welding	160	185	159	182	214
Blast furnaces	1,086	941	5,857	5,077	6,763
Steelmaking:					
Open hearth	1,367	3,196	3,949	6,005	4,329
Basic oxygen process & Electric	17,849	15,024	17,837	18,061	18,801
Total steelmaking	19,216	18,220	21,786	24,066	23,130
Maintenance & construction	26	21	19	22	20
All other	1,532	2,148	2,828	690	1,439
Total	**23,751**	**22,990**	**32,332**	**32,403**	**34,295**

NOTE: Oxygen consumed in liquid form was converted to its gaseous equivalent in these statistics.

Table 63

Consumption of Pig Iron

(Thousands of net tons)

Year	Steelmaking	Other Than Steelmaking	Total
1983	8,801	169	8,970
1982	8,154	134	8,288
1981	9,858	272	10,130
1980	10,917	285	11,202
1979	11,220	227	11,447

WORLD STATISTICS

The following tables covering production of foreign countries were compiled from reports issued by the Bureau of Mines of the United States Department of the Interior, Statistisches Bundesamt, Aussenstelle Dusseldorf, Eisen-und Stahlstatistik, and the International Iron and Steel Institute.

Table 64

World Production of Iron Ore, Concentrates and Agglomerates by Countries

(Thousands of gross tons)

Countries	1983[P]		1982[R]		1981[R]		1980[R]		1979[R]	
	Tons	%	Tons	%	Tons	%	Tons	%	Tons	%
North America										
United States	37,967	...	35,433	4.6	73,174	8.5	69,613	8.0	85,716	9.7
Canada	32,351	...	32,674	4.3	49,844	5.8	47,984	5.5	58,942	6.6
Total	70,318	...	**68,107**	**8.9**	**123,018**	**14.3**	**117,597**	**13.5**	**144,658**	**16.3**
Latin America										
Argentina			354	...	394	...	405	...	521	...
Brazil			88,579	...	104,917	...	105,494	...	88,759	...
Chile			6,427	...	8,223	...	8,819	...	8,159	...
Colombia			438	...	402	...	483	...	411	...
Mexico			7,697	...	8,267	...	8,020	...	8,854	...
Peru			5,708	...	5,575	...	5,589	...	5,331	...
Venezuela			11,496	...	15,472	...	13,465	...	13,317	...
Total			**120,699**	**15.8**	**143,250**	**16.6**	**142,275**	**13.3**	**125,352**	**14.1**
Europe										
Western Europe										
EEC										
France			19,355	...	21,528	...	28,738	...	31,461	...
Italy			7	...	138	...	213	...	246	...
Luxembourg			...	...	422	...	551	...	620	...
West Germany			1,291	...	1,547	...	1,914	...	1,633	...
United Kingdom			463	...	719	...	902	...	4,202	...
Total EEC			21,623	2.8	25,612	3.0	32,318	3.7	38,162	4.3
Other Western Europe										
Austria			3,277	...	2,998	...	3,218	...	3,149	...
Finland			874	...	849	...	797	...	761	...
Greece (a)			507	...	1,258	...	1,429	...	1,807	...
Norway			3,214	...	3,999	...	3,747	...	4,183	...
Portugal			30	...	36	...	55	...	54	...
Spain			7,500	...	8,278	...	8,725	...	8,688	...
Sweden			15,883	...	22,858	...	26,755	...	26,200	...
Turkey			2,604	...	2,785	...	2,533	...	1,925	...
Yugoslavia (b)			5,024	...	4,717	...	4,433	...	4,543	...
Total Other Western Europe			38,406	5.1	46,520	5.4	51,692	5.9	51,310	5.8
Total Western Europe			**60,029**	**7.9**	**72,132**	**8.4**	**84,010**	**9.6**	**89,472**	**10.1**

NOT AVAILABLE

(a) Included in EEC total starting in 1981.
(b) Communist Bloc.

Table 64 *(continued)*

World Production of Iron Ore, Concentrates and Agglomerates by Countries

(Thousands of gross tons)

Countries	1983[P]		1982[R]		1981[R]		1980[R]		1979[R]	
	Tons	%	Tons	%	Tons	%	Tons	%	Tons	%
Eastern Europe										
(Communist Bloc)										
Bulgaria			1,527	...	1,726	...	1,856	...	2,070	...
Czechoslovakia			1,832	...	1,904	...	1,897	...	1,980	...
East Germany			38	...	40	...	50	...	64	...
Hungary			458	...	415	...	425	...	515	...
Poland			48	...	103	...	102	...	246	...
Rumania			2,112	...	2,268	...	2,296	...	2,483	...
U.S.S.R.			240,551	...	238,588	...	240,897	...	237,782	...
Total Eastern Europe			**246,566**	**32.3**	**245,044**	**28.5**	**247,523**	**28.4**	**245,140**	**27.7**
Total Europe			**306,595**	**40.2**	**317,176**	**36.9**	**331,533**	**38.0**	**334,612**	**37.8**
Africa										
Algeria			3,543	...	3,543	...	3,445	...	3,120	...
Liberia			17,716	...	18,208	...	18,060	...	20,409	...
Mauritania			8,858	...	7,874	...	8,464	...	9,222	...
Zimbabwe			824	...	1,079	...	1,594	...	1,181	...
South Africa, Republic of			24,167	...	27,873	...	25,963	...	31,062	...
Other			500	...	440	...	452	...	441	...
Total			**55,607**	**7.3**	**59,017**	**6.9**	**57,978**	**6.7**	**65,435**	**7.4**
Middle East										
Iran			472	...	492	...	492	...	492	...
United Arab Republic (Egypt)			1,831	...	1,772	...	1,747	...	1,365	...
Total			**2,303**	**0.3**	**2,264**	**0.3**	**2,239**	**0.3**	**1,857**	**0.2**
Far East										
India			40,136	...	40,549	...	40,274	...	39,236	...
Japan			354	...	434	...	470	...	453	...
Malaysia			449	...	523	...	365	...	343	...
South Korea			546	...	487	...	479	...	449	...
Other			167	...	144	...	156	...	249	...
Total			**41,485**	**5.5**	**42,137**	**4.9**	**41,744**	**4.8**	**40,730**	**4.6**
Far East										
(Communist Bloc)										
China			68,895	...	68,895	...	70,863	...	68,895	...
North Korea			8,858	...	8,858	...	8,858	...	9,104	...
Total			**77,753**	**10.2**	**77,753**	**9.0**	**79,721**	**9.2**	**77,999**	**8.8**
Oceania										
Australia			**89,721**	**11.8**	**95,911**	**11.1**	**97,569**	**11.2**	**95,839**	**10.8**
Total World			**762,270**	**100.0**	**860,526**	**100.0**	**870,656**	**100.0**	**886,482**	**100.0**

NOT AVAILABLE

Source: United States—Bureau of Mines, other countries—Statistical Quarterly Report for Iron and Steel Industry, Statistisches Bundesamt, Aussenstelle Dusseldorf, Eisen-und Stahlstatistik.

NOTE: 1983 preliminary data for foreign countries was not available at time this report went to press.

Table 65

World Production of Pig Iron by Countries

(Thousands of net tons)

Countries	1983[P]		1982[R]		1981		1980		1979	
	Tons	%	Tons	%	Tons	%	Tons	%	Tons	%
North America										
United States	48,706	10.0	43,309	8.6	73,570	13.3	68,721	12.3	87,003	14.9
Canada	9,443	2.0	8,819	1.8	10,740	1.9	12,007	2.1	12,021	2.0
Total	**58,149**	**12.0**	**52,128**	**10.4**	**84,310**	**15.2**	**80,728**	**14.4**	**99,024**	**16.9**
Latin America										
Argentina	2,075	...	2,116	...	1,918	...	1,991	...	2,136	...
Brazil	14,173	...	12,125	...	12,144	...	14,286	...	13,137	...
Chile	594	...	499	...	642	...	714	...	674	...
Colombia	299	...	265	...	257	...	308	...	261	...
Mexico	5,476	...	5,622	...	6,044	...	5,806	...	5,541	...
Peru	158	...	226	...	256	...	325	...	293	...
Venezuela	2,804	...	2,601	...	2,442	...	2,351	...	1,463	...
Total	**25,579**	**5.3**	**23,455**	**4.7**	**23,731**	**4.3**	**25,781**	**4.6**	**23,505**	**4.0**
Europe										
Western Europe										
EEC										
Belgium	8,856	...	8,633	...	10,788	...	10,852	...	11,878	...
Luxembourg	2,553	...	2,852	...	3,185	...	3,933	...	4,190	...
France	15,105	...	16,586	...	19,041	...	21,119	...	21,401	...
Italy	11,420	...	12,782	...	13,579	...	13,469	...	12,564	...
Netherlands	4,135	...	3,987	...	5,071	...	4,771	...	5,306	...
West Germany	29,319	...	30,447	...	35,137	...	37,338	...	36,765	...
United Kingdom	10,607	...	9,247	...	10,531	...	6,962	...	14,217	...
Total EEC	81,995	16.9	84,534	16.9	97,376	17.7	98,444	17.6	108,321	18.5
Other Western Europe										
Austria	3,660	...	3,434	...	3,833	...	3,842	...	4,081	...
Finland	2,095	...	2,143	...	2,166	...	2,226	...	2,246	...
Greece (a)	...	...	...	...	44	...	110	...	362	...
Norway	622	...	532	...	628	...	681	...	718	...
Portugal	391	...	237	...	346	...	330	...	400	...
Spain	5,934	...	6,607	...	6,899	...	7,032	...	7,114	...
Sweden	2,216	...	1,961	...	1,951	...	2,684	...	3,204	...
Switzerland	...	...	11	...	36	...	36	...	39	...
Turkey	3,048	...	2,601	...	2,200	...	2,454	...	1,924	...
Yugoslavia (b)	3,120	...	2,978	...	3,105	...	2,673	...	2,601	...
Total Other Western Europe	21,086	4.3	20,504	4.1	21,164	3.8	22,068	3.9	22,689	3.9
Total Western Europe	**103,081**	**21.2**	**105,038**	**21.0**	**118,540**	**21.5**	**120,512**	**21.5**	**131,010**	**22.4**

(a) Included in EEC total staring 1981.
(b) Communist Bloc.

Table 65 *(continued)*

World Production of Pig Iron by Countries

(Thousands of net tons)

Countries	1983[P]		1982[R]		1981		1980		1979	
	Tons	%	Tons	%	Tons	%	Tons	%	Tons	%
Eastern Europe (Communist Bloc)										
Bulgaria	1,824	...	1,725	...	1,669	...	1,696	...	1,601	...
Czechoslovakia	10,711	...	10,499	...	10,916	...	10,823	...	10,505	...
East Germany	2,469	...	2,369	...	2,681	...	2,709	...	2,630	...
Hungary	2,318	...	2,426	...	2,438	...	2,440	...	2,629	...
Poland	...	...	9,027	...	9,899	...	12,687	...	12,240	...
Rumania	10,583	...	9,521	...	9,763	...	9,934	...	9,787	...
U.S.S.R.	117,600	...	117,641	...	118,790	...	118,257	...	120,148	...
Total Eastern Europe	**145,505**	**30.0**	**153,208**	**30.5**	**156,156**	**28.3**	**158,546**	**28.3**	**159,540**	**27.3**
Total Europe	**248,586**	**51.2**	**258,246**	**51.5**	**274,696**	**49.8**	**279,058**	**49.8**	**290,550**	**49.7**
Africa										
Zimbabwe	...	...	639	...	386	...	386	...	331	...
South Africa, Republic of	5,423	...	7,500	...	8,123	...	7,948	...	7,750	...
Algeria	...	...	562	...	551	...	551	...	546	...
Tunisia	...	...	110	...	165	...	168	...	172	...
Total	**5,423**	**1.1**	**8,811**	**1.7**	**9,225**	**1.7**	**9,053**	**1.6**	**8,799**	**1.5**
Middle East										
Iran	...	...	243	...	231	...	220	...	220	...
United Arab Republic (Egypt)	...	...	728	...	716	...	716	...	661	...
Total	...	...	**971**	**0.2**	**947**	**0.2**	**936**	**0.2**	**881**	**0.1**
Far East										
India	10,100	...	10,626	...	10,443	...	9,379	...	9,664	...
Japan	80,400	...	85,602	...	88,237	...	95,945	...	92,400	...
South Korea	8,845	...	9,285	...	8,736	...	6,148	...	5,581	...
Taiwan	3,758	...	2,971	...	1,775	...	1,857	...	2,013	...
Thailand	...	...	44	...	45	...	42	...	39	...
Indonesia	...	...	265	...	254	...	243	...	204	...
Malaysia	...	...	243	...	243	...	220	...	176	...
Philippines	...	...	22	...	22	...	21	...	14	...
Total	**103,103**	**21.3**	**109,058**	**21.7**	**109,755**	**19.9**	**113,855**	**20.3**	**110,091**	**18.8**
Far East (Communist Bloc)										
China	38,768	...	38,581	...	37,478	...	39,021	...	40,267	...
North Korea	...	...	3,858	...	3,858	...	3,748	...	3,527	...
Total	**38,768**	**8.0**	**42,439**	**8.5**	**41,336**	**7.5**	**42,769**	**7.7**	**43,794**	**7.5**
Oceania										
Australia	**5,567**	**1.1**	**6,565**	**1.3**	**7,529**	**1.4**	**7,675**	**1.4**	**8,610**	**1.5**
Total World	**485,175**	**100.0**	**501,672**	**100.0**	**551,501**	**100.0**	**559,855**	**100.0**	**585,254**	**100.0**

NOTE: Detail does not necessarily add to totals.

Source: United States—American Iron and Steel Institute; Canada—Statistics Canada. Other countries—Statistical Quarterly Report for Iron and Steel Industry, Statistisches Bundesamt, Aussenstelle Dusseldorf, Eisen-und Stahlstatistik.

Table 66

World Production of Raw Steel by Countries

(Thousands of net tons)

Countries	1983[P] Tons	%	1982[R] Tons	%	1981 Tons	%	1980 Tons	%	1979 Tons	%
North America										
United States	84,615	11.6	74,577	10.5	120,828	15.5	111,835	14.2	136,341	16.5
Canada	14,030	1.9	12,966	1.8	16,135	2.1	17,528	2.2	17,723	2.2
Total	**98,645**	**13.5**	**87,543**	**12.3**	**136,963**	**17.6**	**129,363**	**16.4**	**154,064**	**18.7**
Latin America										
Argentina	3,237	...	3,211	...	2,784	...	2,962	...	3,526	...
Brazil	16,159	...	14,324	...	14,521	...	16,875	...	15,314	...
Chile	674	...	532	...	724	...	823	...	708	...
Colombia	511	...	451	...	436	...	443	...	398	...
Cuba (a)	364	...	364	...	364	...	331	...	331	...
Mexico	7,624	...	7,778	...	8,382	...	7,825	...	7,722	...
Peru	317	...	303	...	397	...	518	...	481	...
Venezuela	2,555	...	2,511	...	2,236	...	2,006	...	1,660	...
Others	415	...	396	...	266	...	152	...	123	...
Total	**31,856**	**4.4**	**29,870**	**4.2**	**30,110**	**3.9**	**31,935**	**4.0**	**30,263**	**3.7**
Europe										
Western Europe										
EEC										
Belgium-Luxembourg	14,825	...	14,883	...	17,716	...	18,673	...	20,272	...
Denmark	543	...	617	...	675	...	809	...	886	...
France	19,414	...	20,285	...	23,431	...	25,547	...	25,750	...
West Germany	39,384	...	39,551	...	45,863	...	48,323	...	50,750	...
Ireland	155	...	67	...	35	...	2	...	79	...
Italy	23,891	...	26,466	...	27,309	...	29,212	...	26,731	...
Netherlands	4,936	...	4,799	...	6,031	...	5,803	...	6,400	...
United Kingdom	16,527	...	15,107	...	17,165	...	12,431	...	23,725	...
Total EEC	**120,624**	**16.5**	**122,779**	**17.3**	**139,227**	**17.9**	**140,800**	**17.8**	**154,593**	**18.7**
Other Western Europe										
Austria	4,862	...	4,694	...	5,132	...	5,096	...	5,420	...
Finland	2,663	...	2,661	...	2,676	...	2,765	...	2,716	...
Greece (b)	948	...	1,003	...	1,002	...	1,323	...	1,102	...
Norway	988	...	830	...	935	...	950	...	982	...
Portugal	734	...	578	...	611	...	726	...	739	...
Spain	14,033	...	14,491	...	14,214	...	13,936	...	13,501	...
Sweden	4,641	...	4,299	...	4,155	...	4,670	...	5,217	...
Switzerland	937	...	920	...	1,065	...	1,024	...	977	...
Turkey	4,191	...	3,134	...	2,673	...	2,795	...	2,641	...
Yugoslavia (a)	4,559	...	4,232	...	4,383	...	4,006	...	3,897	...
Total Other W. Europe	**37,608**	**5.1**	**35,839**	**5.0**	**35,844**	**4.6**	**37,291**	**4.7**	**37,192**	**4.5**
Total Western Europe	**158,232**	**21.6**	**158,618**	**22.3**	**175,071**	**22.5**	**178,091**	**22.5**	**191,785**	**23.2**

(a) Communist Bloc
(b) Included in EEC total starting 1961

Table 66 *(continued)*

World Production of Raw Steel by Countries

(Thousands of net tons)

Countries	1983[P] Tons	%	1982[R] Tons	%	1981 Tons	%	1980 Tons	%	1979 Tons	%
Eastern Europe (Communist Bloc)										
Bulgaria	3,086	...	2,851	...	2,737	...	2,830	...	2,736	...
Czechoslovakia	16,645	...	16,570	...	16,831	...	16,452	...	16,333	...
East Germany	8,267	...	7,901	...	8,230	...	8,056	...	7,743	...
Hungary	4,189	...	4,081	...	4,018	...	4,152	...	4,309	...
Poland	18,078	...	16,309	...	17,325	...	21,478	...	21,184	...
Rumania	14,881	...	14,391	...	14,356	...	14,523	...	14,230	...
U.S.S.R.	167,550	...	162,207	...	163,695	...	163,064	...	164,339	...
Total Eastern Europe	**232,696**	**31.8**	**224,308**	**31.6**	**227,192**	**29.1**	**230,555**	**29.2**	**230,874**	**28.0**
Total Europe	**390,928**	**53.4**	**382,926**	**53.9**	**402,263**	**51.6**	**408,646**	**51.7**	**422,659**	**51.2**
Africa										
Zimbabwe	713	...	606	...	762	...	887	...	816	...
Republic of South Africa	7,721	...	9,039	...	9,925	...	9,996	...	9,784	...
Others	1,350	...	1,077	...	1,071	...	950	...	790	...
Total	**9,784**	**1.3**	**10,722**	**1.5**	**11,758**	**1.5**	**11,833**	**1.5**	**11,390**	**1.4**
Middle East										
Egypt	1,047	...	1,047	...	992	...	882	...	882	...
Israel	91	...	96	...	126	...	127	...	118	...
Iran	1,323	...	1,323	...	1,323	...	1,323	...	1,576	...
Other	1,179	...	766	...	715	...	624	...	624	...
Total	**3,640**	**0.5**	**3,232**	**0.5**	**3,156**	**0.4**	**2,956**	**0.4**	**3,200**	**0.4**
Asia										
India	11,359	...	12,122	...	11,865	...	10,487	...	11,162	...
Japan	107,109	...	109,732	...	112,067	...	122,791	...	123,180	...
South Korea	13,134	...	12,961	...	11,852	...	9,433	...	8,389	...
Taiwan	5,530	...	4,577	...	3,480	...	4,657	...	4,685	...
Others	2,817	...	2,444	...	1,926	...	2,388	...	2,333	...
Total	**139,949**	**19.1**	**141,836**	**20.0**	**141,190**	**18.1**	**149,756**	**18.9**	**149,749**	**18.1**
Asia (Communist Bloc)										
China	44,015	...	40,915	...	39,238	...	40,918	...	38,007	...
North Korea	6,393	...	6,393	...	6,062	...	6,393	...	5,952	...
Total	**50,408**	**6.9**	**47,308**	**6.6**	**45,300**	**5.8**	**47,311**	**6.0**	**43,959**	**5.3**
Oceania										
Australia	6,178	...	7,023	...	8,415	...	8,365	...	8,950	...
New Zealand	258	...	278	...	244	...	254	...	252	...
Total	**6,436**	**0.9**	**7,301**	**1.0**	**8,659**	**1.1**	**8,619**	**1.1**	**9,202**	**1.2**
Total Free World	**443,619**	**60.6**	**434,525**	**61.1**	**502,160**	**64.4**	**508,216**	**64.8**	**545,425**	**66.7**
Total Communist Bloc	**288,027**	**39.4**	**276,213**	**38.9**	**277,239**	**35.6**	**282,203**	**35.2**	**279,061**	**33.3**
Total World	**731,646**	**100.0**	**710,738**	**100.0**	**779,399**	**100.0**	**790,419**	**100.0**	**824,486**	**100.0**

NOTE: United States data excludes steel produced by foundries which report their output to the Bureau of Census, but not to American Iron and Steel Institute as follows: 1983—727[P]; 1982—1,017; 1981—1,743; 1980—1,878; 1979—2,039; (in thousands of net tons).

SOURCE: United States—American Iron and Steel Institute; Canada—Statistics Canada. Other countries—International Iron and Steel Institute.